STIC-Biotech/Ch mLib

From: Sent:

Schultz, James

Tuesday, February 04, 2003 10:18 AM STIC-Biotech/ChemLib

Subject:

Sequence search 09/960,143

12E18

Could you please run a <u>length limited</u> nucleotide sequence search on SEQ ID NO:3 (1639 nt long) in the above entitled application, where the maximum size of the returned hits are no longer than 50 nucleotides?

Doug Schultz

J. Douglas Schultz, Ph.D. AU 1635 (Biotechnology) Patent Examiner United States Patent and Trademark Office (703) 308-9355 (703) 746-3973 (fax) Office: CM1 12E18 Mail: CM1 11E12

Point of Contact: Thomas G. Larson, Ph.D. 703-308-7309 CM1, Rm. 6 B 01

Searcher:	arson
Phone:	
Location:	
Date Picked Up:	2/4
Date Completed	
Searcher Prep/R	eview: 10
Clerical:	
Online time:	5-

TYPE OF SEARCH:
NA Sequences:/
AA Sequences:
Structures:
Bibliographic:
Litigation:
Full text:
Patent Family:
Other:

VENDOR/COST (where applic.)
STN:
DIALOG:
Questel/Orbit:
DRLink:
Lexis/Nexis:
Sequence Sys.: ABSS 13
WWW/Internet:
Other (specify):

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Sequence 40, Appl
Sequence 42, Appl
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Sequence 42, Appl
Sequence 6, Appli
Sequence 6, Appli
Sequence 479, App
Sequence 479, Appl
Sequence 479, Appl
Sequence 479, Appli
Sequence 8, Appli
Sequence 8, Appli
Sequence 7, Appli
Sequence 20, Appli
Sequence 1167, Appli
Sequence 21, Appli
Sequence 22, Appli
                                                                                                                 9, 2003, 17:22:03; Search time 101 Seconds (without alignments) 4976.665 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                             US-09-960-143-3
1639
1 acaaactttcagagacagca.....atataatttgttgtcaaagt 1639
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Issued_Patents_NA:*

1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*

2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*

3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*

4: /cgn2_6/ptodata/1/ina/RECOMB.seq:*

5: /cgn2_6/ptodata/1/ina/RECOMB.seq:*

5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*

5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
        GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.
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US-08-482-111-42
US-08-482-111-40
US-08-410-6548-42
US-08-411-560-42
US-08-411-560-42
US-08-411-560-42
US-09-308-1608-6
US-09-308-1608-6
US-09-308-479
US-09-308-479
US-09-225-928-479
US-08-327-4474-7
US-08-482-111-53
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                                                                                                                                                                                                                                                                                                                                   441362 seqs, 153338381 residues
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Maximum Match 100%
Listing first 45 summaries
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Match Length DB
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		and Methods	Length ; Indel	AGGACTGCTAAACAACTTAGATGTCAGTGCATAAAGACATACTCCAA 21
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US-09-218-207-250 US-09-218-207-327 US-08-317-102-2 US-09-641-638-1043 US-08-246-855A-16 US-08-410-654B-29 US-08-417-654B-12 US-08-474-851-29 US-08-474-851-29 US-08-478-851-29 US-08-481-560-29 US-08-481-560-29 US-08-48-19-28 US-08-468-819-43 US-08-468-819-43 US-08-468-819-43 US-08-468-819-43 US-08-468-819-43 US-08-468-819-43 US-08-468-819-43 US-08-468-819-43 US-08-468-819-43 US-09-641-638-1031	STA	Version version 0001	۵ ه	AGACA
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		Candidate Prince Candidate	2 larity 87 Conservativ	AAAGA AAAGA
		3-42 565024 NFORMATIO NF: Daly NT: Caly	h Similarity 41; Conser	FGCT2 FGCT2
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		HET 1 8-330-163 guence 42 ENERAL INO. ENERAL INO. APPLICAN APPLICAN TITLE OF TITLE OF TITLE OF TOWNERPO COMPUTER ADDRESS STATE: COMPUTER COMPUTER COMPUTER COMPUTER APPLICA APPLICA APPLICA APPLICA APPLICA TELEPHO T	Query Match Best Local Matches 4	1
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RESULT 2

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APPLICANT: Daly, Thomas J.
APPLICANT: LAROSA, Gregory J.
TITLE OF INVENTION: Chemokine-Like Proteins and Methods of
TITLE OF INVENTION: Use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1; Length 37;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Patentin Release #1.0, Version #1.30B CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/330,163 FILING DATE: 05-AUG-1994
                                                                                                                                                                                                                                                                                                                                                                                                   2.3%; Score 37; DB 1;
100.0%; Pred. No. 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             351 GGTTGTGGAGAGTTTTGAAGAGGGCTGAGAATTCA 387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Fasse, J. Peter
RECISTRATION NUMBER: 32,983
REFERENCE/DOCKET NUMBER: 00231/080001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEPHONE: (617) 542-8906
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 base pairs
LENGTH: 37 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
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....ek: US/08/330,163
05-AUG-1994
NN: 530
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 40 Application US/08482111
Fatent No. 5789539
GENERAL TREORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                        100.08;
                                                                                                 ATTORNEY/AGENT INFORMATION:
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Best Local Similarity 100.
Matches 37; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linear
                                                                                                                                                                                                                                                                                                                                ; TOPOLOGY: linear; MOLECULE TYPE: DNA US-08-330-163-40
                                                                                CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE:
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APPLICANT: LAID, Thomas J.
APPLICANT: LAID, Thomas J.
TITLE OF INVENTION: Chemokine-Like Proteins and Methods of TITLE OF INVENTION: Use
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
                                                                                                       GENERAL INFORMATION:
APPLICANT: Dally, Thomas J.
APPLICANT: LarRosa, Gregory J.
TILE OF INVENTION: Chemokine-Like Proteins and Methods of
TITLE OF INVENTION: Use
NUMBER OF SEQUENCES: 70
CORRESPONDENCE ADDRESS:
ADDRESSE: Fish & Richardson P.C.
STREET: 225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 47;
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CURRENT APPLICATION DATA:
CURRENT APPLICATION DATA:
APPLICATION NUMBER:
CLASSIFICATION:
TLING DATE:
ATONNEY/AGENT INFORMATION:
NAME: Fasse, J. Peter
REGISTRATION NUMBER: 32,983
REGISTRATION NUMBER: 32,983
RECISTRATION NUMBER: 32,983
RECISTRATION NUMBER: 32,570
TELEPHONE: (617) 542-570
TELEPHONE: (617) 542-570
TELEPHONE: (617) 542-6906
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 47 base pairs
TYPE: NUCLEIC acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
2.3%; Score 37.4; DB 1;
Best Local Similarity 87.2%; Pred. No. 15;
Matches 41; Conservative 0; Mismatches 6;
                                                                                                                                                                                                                                                        STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: U.S.A.
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
COMPUTER: IBM PC COMPATIBLE
COMPUTER: IBM PC COMPATIBLE
COMPUTER: SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: 225 Franklin Street
STREET: 225 Franklin Street
STATE: Boston
COUNTRY: U.S.A.
21P: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 10, Application US/08330163 Catent No. 5656724 GENERAL INFORMATION:
                                                                Sequence 42, Application US/08482111 Patent No. 5789539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; TOPOLOGY: linear; MOLECULE TYPE: DNA US-08-482-111-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-330-163-40/c
                                                    US-08-482-111-42
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RESULT 3

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APPLICANT: Hargen Spits
TTLE OF INVENTION: Use of An Interleukin-10 Antagonist to Treat
TITLE OF INVENTION: Use of An Interleukin-10 Antagonist to Treat
TITLE OF INVENTION: A B Cell Mediated Autoimmune Disorder
NUMBER OF SEQUENCES: 61
CORRESPONDENCE ADDRESS:
ADDRESSEE: Schering-Plough Corporation
STREET: 2000 Galloping Hill Road
CITY: Remilworth
STATE: New Jersey
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;
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Inflammation or T-Cell Mediated
Immune Function
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100.0%; Pred. No. 1.1e+0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             E: Schering-Plough Corporation
2000 Galloping Hill Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/410,654
FILING DATE: 24-MAR-1995
APPLICATION NUMBER: 08/229,854
FILING DATE: 19-APR-1994
APPLICATION NUMBER: US 07/926,853
FILING DATE: 06-AUG-1992
APPLICATION NUMBER: US 07/742,129
FILING DATE: 06-AUG-1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; MOLECULE TYPE: DNA (oligonucleotide)
US-08-474-851-42
                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Microsoft word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/474,851
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 42, Application US/08481560
Patent No. 5837293
GENERAL INFORMATION:
FAPPLICANT: Rene de Waal Malefyt
APPLICANT: Di-Hwei Hsu
APPLICANT: Anne O'Garra
APPLICANT: Hergen Spits
TITLE OF INVENTION: Use of Interlev
TITLE OF INVENTION: Inflammation of
               Rene de Waal Malefyt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 2.0%; Soc
Best Local Similarity 100.0%; P:
Matches 33; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Foulke, Cynthia L. REGISTRATION NUMBER: 32,364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: D)
TELECOMMUNICATION INFORMATION
TELEPHONE: 908-2987
                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Macintosh
                                                                                                                                                                                                                                                                                                                                                                                  7.5.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: 908-298-5388
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                          Anne O'Garra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      908-298-5388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         33 base pairs
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                                      Di-Hwei Hsu
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CORRESPONDENCE ADDRESS:
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                                                        APPLICANT:
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                             Indels
                                                          **RESULT 5

**RESULT 5

**SEGUENCE 42, APPLICATION 1

**SEGUENCE 42, APPLICATION 1

**SEGUENCE 42, APPLICATION 1

**SEGUENCE 42, APPLICATION 1

**PATENT NO. 533376

**SEGUENCE A1, APPLICANT 1

**APPLICANT Rene de Waal Malefyt 1

**APPLICANT Anne O'Garra 1

**APPLICANT Anne O'Garra 1

**APPLICANT Anne O'Garra 1

**APPLICANT SPECON SPITS 1

**TITLE OF INVENTION: Septic Shock 1

**UWINDER OF SEQUENCES: 61

**CORRESPONDENCE ADDRESS: ADDRESS: STREET.
                             ö
Best Local Similarity 100.0%; Pred. No. 18; Matches 37; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    358 GAGAAGTTTTGAAGAGGGCTGAGAATTCATAA 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE: Schering-Plough Corporation STREET: 2000 Galloping Hill Road CITY: Kenilworth STATE: New Jersey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             33 GAGAAGTTTTTGAAGAGGCTGAGAATTCATAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OPERATING SYSTEM: 7.5.3
SOFTWARE: MICTOSOFT WORD 5.1a
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/410,654B
FILING DATE: 24-MAR-1995
CLASSIFICATION 1424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/229,854
FILING DATE: 19-APPLICATION NUMBER: US 07/926,853
FILING DATE: 06-AUG-1992
APPLICATION NUMBER: US 07/742,129
FILING DATE: 06-AUG-1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear
MOLECULE TYPE: DNA (oligonucleotide)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DX0221KQ1
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IS-08-474-851-42/c

Sequence 4.5 Application US/08474851

Patent No. 5837232

GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Foulke, Cynthia L.
REGISTRATION NUMBER: 32,364
REFERENCE/DOCKET NUMBER: DXI
TELECOMMUNICATION:
TELEPHONE: 908-298-2987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE: Floppy disk COMPUTER: Macintosh OPERATING SYSTEM: 7.5.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: 908-298-2987
TELEFAX: 908-298-5388
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 2.0
Best Local Similarity 100.
Matches 33; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZIP: 07033
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                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION TRAINING OF Cytosignal Research, Inc. TILLE OF INVENTION: Trainscriptional Inhibitor FILE REFERENCE: $1-802PCT-US CURRENT APPLICATION NUMBER: US/09/456,399 PRIOR APPLICATION NUMBER: US/09/12-08 PRIOR APPLICATION NUMBER: JP 1996-305043 PRIOR FILING DATE: 1996-11-15
                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 1.9%; Score 31; DB 5; Lo
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 31; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
1.8%; Score 30; DB 4; L
Best Local Similarity 100.0%; Pred. No. 4.5e+02;
Matches 30; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: Nagasawa, Yasuo
APPLICANT: Yoshida, Hideaki
TTTLE COF INVENTION: TRANSCRIPTIONAL INHIBITOR
FILE REFERENCE: 4001-0002
CURRENT APPLICATION NUMBER: US/09/308,160B
CURRENT FILING DATE: 1999-06-19
PRIOR APPLICATION NUMBER: 8-305043
PRIOR FILING DATE: 1997-11-12
PRIOR FILING DATE: 1996-11-15
NUMBER OF SEQ ID NOS: 31
SOFTWARE: PATENTIN VOY: 2.1
SOFTWARE: PATENTIN VOY: 2.1
SEQ ID NO 6
LENGTH: 30
TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      119 TGGCAGCCTTCCTGATTTCTGCAGCTCTGTG 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31 TGGCAGCCTTCCTGATTTCTGCAGCTCTGTG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14 GACAGCAGACACACAAGCTTCTAGGACAA 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30 GACAGCAGAGCACACAGGACTTCTAGGACAA 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          . Sequence 6, Application US/09308160B
; Patent No. 6355775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-456-389-6/c
| Sequence-67 Application US/09456399
| Patent No. 6444801
                                                                REGISTRATION NUMBER: 32.257
REFERENCE/DOCKET NUMBER: TCEL
TELECOMMUNICATION INFORMATION:
TELEPAX: (609) 779-2400
TELEPAX: (609) 779-8488
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial Sequence FEATURE:
                                           ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                       TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
ANTI-SENSE: No
PCT-US96-08142-9
  APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
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US-09-308-160B-6/c
                                                                                                                                                                                                                                                                        LENGTH:
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TITLE OF INVENTION: Universal Chemistry Enzyme-Linked
TITLE OF INVENTION: Immunosorbent Assay for Detection of
TITLE OF INVENTION: MRNA Expression
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jane Massey Licata, Esq.
STREET: 210 Lake Drive East, Suite 201
STREET: NJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
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MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE
COMPUTER: IBM 486
COMPUTER: IBM 486
COMPUTER: WINDOWS FOR WORKGROUPS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION NUMBER: PCT/US96/08142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2.0%; Score 33; DB 2; Lo 100.0%; Pred. No. 1.1e+02; tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    358 GAGAAGTTTTGAAGAGGGCTGAGAATTCATAA 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             33 GAGAAGTTTTTGAAGAGGCTGAGAATTCATAA 1
                                                                                                                                                               COMPACTOR SYSTEM: 7.5.3
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/481,560
FILING DATE: 07-UN-1995
CLASSIFICATION TAX
PRIOR APPLICATION DATA:
APPLICATION WINBER: US 08/229,854
FILING DATE: 19-APR-1995
APPLICATION NUMBER: US 07/926,853
FILING DATE: 19-APR-1994
APPLICATION NUMBER: US 07/926,853
FILING DATE: 06-AUG-1991
APPLICATION NUMBER: US 07/926,853
FILING DATE: 06-AUG-1991
APPLICATION NUMBER: US 07/926,853
APPLICATION NUMBER: US 07/742,129
APPLICATION NUMBER: US 07/742,129
APPLICATION NUMBER: US 07/742,129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DX0221KQ1GC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; TOPOLOGY: linear; MOLECULE TYPE: DNA (oligonucleotide)
US-08-481-560-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 908-298-5388
TELEFAX: 908-298-5388
INFORMATION FOR SEO 1D NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: FOLIKE, Cynthia L.
REGISTRATION NUMBER: 32,364
REFERENCE/DOCKET UNMBER: DXC
TELECOMMUNICATION:
TELEPHONE: 908-298-2987
                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Macintosh
OPERATING SYSTEM: 7.5.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 100.
Matches 33; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Herewith
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Kenilworth
: New Jersey
<Y: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: H
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PCT-US96-08142-9/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
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                                                                                                                                                                                                         Petrance 180 Application US/08859998
Patent No. 5994076
- GAREPAL - HOEDWATTON:
APPLICANT: Chenchik, Alex
APPLICANT: Chanchik, Alex
APPLICANT: Bibilashvilli, Robert
TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
TITLE OF SEQUENCES: 1375
CORRESPONDENCE ADDRESS:
                        Pred. No. 1.1e+03; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 2; L6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM: Windows95
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,998
FILING DATE: 21-MAY-1997
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; OTHER INFORMATION: Oligonucleotide primer US-08-859-998-480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1.7%; Score 28; DB 100.0%; Pred. No. 1.1 tive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Fish & Richardson, P.C. STREET: 2200 Sand Hill Road, Suite 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09096/002001
                                                                        88 AACATGACTTCCAAGCTGGCCGTGGCTC 115
                                                                                              1 AACATGACTTCCAAGCTGGCCGTGGCTC 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           248 GAGTGATTGAGAGTGGACCACACTGCGC 275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Jokhadze, George
Bibilashvilli, Robert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28 GAGTGATTGAGAGTGGACCACACTGCGC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 479, Application US/09225928; Patent No. 6352829; GENERAL INFORMATION:
APPLICANT: Chenchik, Alex
                  Best Local Similarity 100.0%; F
Matches 28; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Field, Bret E.
REGISTRATION NUMBER: 37,620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 09
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-322-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 94025
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 415-854-0875
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 100.C
Matches 28; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                            Menlo Park
CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear
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                                                                                                                                                                    RESULT 12
US-08-859-998-480/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 13
US-09-225-928-479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
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                                                                                                                                                                                          FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:an artificially US-09-456-399-6
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                                                                                                                                                                                                                                                                                                 Length 30;
                                                                                                                                                                                                                                                                                                                                     Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Chenchik, Alex
APPLICANT: Jokhadze, George
APPLICANT: Biliasahvilli, Robert
TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
TITLE OF INVENTION: EXPRESSION
NUMBER OF SEQUENCES: 1375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
COMPUTER: SASTEM: Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,998
FILING DATE: 21-MAY-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY.
                                                                                                                                                                                                                                                                                               DB 4; Le
4.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1.7%; Score 28; DB 2;
                                                                                                                                                                                                                                                                                     Query Match 1.8%; Score 30; DB Best Local Similarity 100.0%; Pred. No. 4.5 Matches 30; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: Oligonucleotide primer US-08-859-998-479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESSONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STRRET: 2200 Sand Hill Road, Suite 100
CITY: Menlo Park
STATE: CA
COUNTRY: US
        PCT/JP97/04127
PRIOR APPLICATION NUMBER: PCT/JP97/04127
PRIOR FLILNG DATE: 1997-11-12
PRIOR APPLICATION NUMBER: US 09/308,160
PRIOR FILING DATE: 1999-05-14
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PALENTIN VET. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09096/002001
                                                                                                                                                                                                                                                                                                                                                               14 GACAGCAGAGCACACAAGCTTCTAGGACAA 43
                                                                                                                                                                                                                                                                                                                                                                                       Sequence 479, Application US/08859998 Patent No. 5994076 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Field, Bret E.
REGISTRATION NUMBER: 37,620
REFERENCE/DOCKET NUMBER: 0909/
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-322-5070
                                                                                                                                                                  ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: 415-854-08/5
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 28 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nucleic acid
EDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 94025
                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 11
US-08-859-998-479
                                                                                                                                                        TYPE: DNA
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                                                                                                                                      LENGTH:
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APPLICANT: Blaser, Martin J.
APPLICANT: Tummuru, Murali K.R.
APPLICANT: Sharma, Smita A
TITLE OF INVENTION: cagB and cagC Genes for H. pylori and
TITLE OF INVENTION: Related Methods and Compositions
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     oligonucleotide primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 303-3
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/327,494A
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/225,928
FILING DATE: 05-Jan-1999
CLASSIFICATION: «UNKNOWN»
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/859,998
FILING DATE: 21-MAY-1997
ATTORNEY/AGENT INFORMATION:

NAME: Field, Bret E.

REGISTRATION NUMBER: 37,620
REFERENCE/DOCKET NUMBER: 09096/002001
TELECOMMUNICATION:
TELEPHONE: 415-322-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ouery Match
1.7%; Score 28; DB 4; Lv
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 28; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE: NEEDLE & ROSENBERG, P.C. STREET: 127 Peachtree Street, Suite 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ) SEQUENCE DESCRIPTION: Oligonucleot
;
US-09-225-928-480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             248 GAGTGATTGAGAGTGGACCACACTGCGC 275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-327-494A-8/c
; Sequence 8, Application US/08327494A
; Patent No. 5527678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
NAME: Spratt, Gwendolyn D.
REGIETRATION NUMBER: 36,016
REFRENCE/DOCKET NUMBER: 2200
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404/688-0770
                                                                                                                                                                                                                                                                                 TELEFAX: 415-84-0875
INFORMATION FOR SEQ ID NO: 480:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
                                                                                                                                                                                                                                                                                                                                                                          TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 25 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             404/688-9880
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                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Atlanta
STATE: Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY:
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Jokhadze, George
Bibliashvilli, Robert
TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
EXPRESSION
NUMBER OF SEQUENCES: 1375
CORRESPONDENCE ADDRESS:
STREFT: 2200 Sand Hill Road, Suite 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
             TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
                                                                                                                                                                                                                                               COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: BM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSED for Windows95
SOFTWARE: FastSED for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/225,928
FILING DATE: 05-Jan-1999
CLASSIFICATION NUMBER: 08/559,998
FILING DATE: 21-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Field, Bret E:
NAME: Field, Bret E:
REGISTRATION NUMBER: 37,620
REFERENCE/DOCKET WUMBER: 09096/002001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; OTHER INFORMATION: Oligonucleotide primer; SEQUENCE DESCRIPTION: SEQ ID NO: 479: US-09-225-928-479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95

SOFTWARE: FastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 4; Len
1.1e+03;
thes 0;
                                                        NUMBER OF SEQUENCES: 1375
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 2200 Sand Hill Road, Suite 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 1.7%; Score 28; DB Best Local Similarity 100.0%; Pred. No. 1.1 Matches 28; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 88 AACATGACTTCCAAGCTGGCCGTGGCTC 115
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION:
TELEPHONS: 415-822-5070
TELEFAX: 415-854-0875
INFORMATION FOR SEQ ID NO: 479:
                                      EXPRESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 28 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nucleic acid
                                                                                                                                                                                                          ZIP: 94025
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ropology: linear
                                                                                                                                             CITY: Menlo Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: DNA
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COUNTRY: U
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (ESULT 14
JS-09-225-928-486/C
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Gaps

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ZIP: 08002
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE
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1.5%; Score 25; DB 5; Lv
Best Local Similarity 100.0%; Pred. No. 4.6e+03;
Matches 25; Conservative 0; Mismatches 0;
                                                                                                                                                                                                        COMPUTER: IBM 486
OPERATING SYSTEM: WINDOWS FOR WORKGROUPS SOFTWARE: WORDERFECT 5.1
CURRENT APPLICATION DATA:
FILING DATE: Herewith
                NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jane Massey Licata, Esq.
STREET: 210 Lake Drive East, Suite 201
CITY: Cherry Hill
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCEL-0039
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     358 GAGAAGTTTTGAAGAGGGCTGAGA 382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 18 / US-09-714-72/C US-09-714-72/C Application US/09710200 ; Patent No. 6379897.
                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY AGENT INFORMATION:
NAME: Jane Massey Licata
REGISTRATION NUMBER: 32,257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25 GAGAAGTTTTGAAGAGGGCTGAGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: TC
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE: (609) 779-2400
TELEFRAX: (609) 779-8488
INFORMATION FOR SEO ID NO: 8
SEQUENCE CHARACTERISTICS:
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Best Local Similarity 100.C
Matches 24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nucleic Acid
EDNESS: Single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Linear
No
                                                                                                                                    USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRANDEDNESS:
                                                                                                              STATE: NJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; TOPOLOGY;
; ANTI-SENSE;
PCT-US96-08142-8
                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-710-200-72
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                                                                                                                                                  Gaps
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0
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APPLICANT: Tummuru, Murali K.R.
APPLICANT: Tummuru, Murali K.R.
APPLICANT: Tummuru, Murali K.R.
APPLICANT: Sharma, Smita A
TITLE OF INVENTION: cagB and cagC Genes for H. pylori and
TITLE OF INVENTION: Related Methods and Compositions
NUMBER OF SEQUENCES:
ADDRESSEE: NEEDLE & ROSENBERG, P.C.
STREET: 127 Peachtree Street, Suite 1200
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;
0
                                                                                            Query Match
Best Local Similarity 100.0%; Pred. No. 4.6e+03;
Matches 25; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Constance Emmett, Kimberly A. Foster
TITLE OF INVENTION: Universal Chemistry Enzyme-Linked
TITLE OF INVENTION: Immunosorbent Assay for Detection of
TITLE OF INVENTION: mRNA Expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 25;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/13659
FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 5; Le
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100.0%; Pred. No.
tive 0; Mismatci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: SPEART, Gweddolyn D.
REGISTRATION NUMBER: 36,016
REFERENCE/DOCKET NUMBER: 2200.029
TELECOMUNICATION INFORMATION:
TELEPHONE: 404/688-9880
                                                                                                                                                                      ZIP: 303-3
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/NS-DOS
                                                                                                                                                                                                                                                                                                        Application PC/TUS9513659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    358 GAGAAGTTTTGAAGAGGCCTGAGA 382
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25 GAGAAGTTTTGAAGAGGGCTGAGA 1
                  ; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-327-494A-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO: 8
SEQUENCE CHARACTERISTICS:
LENGTH: 25 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 100.
Matches 25; Conservative
      single
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STRANDEDNESS:
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PCT-US95-13659-8/2
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                                                                                                                                                                                                                                                                                                        Sequence 8.
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Gaps

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Length 25; Indels

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weidenhammer, Elaine M.

APPLICANT: Wang, Ling

APPLICANT: Wang, Ling

APPLICANT: Wang, Ling

APPLICANT: Wind

APPLICANT: Michael J.

APPLICANT: Kahl, Brenda F.

TITLE OF INVENTION: IMPROVED METHODS FOR GENE EXPRESSION MONITORING ON ELECTRONIC

CURRENT APPLICATION NUMBER: US/09/710,200

CURRENT APPLICATION NUMBER: US/09/710,200

NUMBER OF SEQ ID NOS: 73

SOFTWARE: PATENTIN VERSION 3.1

SEQ ID NO 72

TYPE-

TYPE-

TYPE-
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Gaps

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Query Match
1.4%; Score 23.4; DB 4; Length 47;
Best Local Similarity 69.8%; Pred. No. 1.1e+04;
Matches 30; Conservative 1; Mismatches 12; Indels
                                                                                                                                                                                                                                           TYPE: DNA
ORGANISM: Homo Sapiens
FEATURE:
NAME/KEY: allele
LOCATION: 24
COTHER IRFORMATION: 12-564-214 : polymorphic base C or T
US-09-641-638-1167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1256 AACAAATAATTTTTAGTATAAGTACATTATTGTTTATCTGAA 1298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: US 60/133,200
PRIOR FILING DATE: 1999-05-07
PRIOR PELICATION NUMBER: US 09/275,267
PRIOR PELICATION NUMBER: US 60/119,917
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1304
SOFTWARE: Patent.pm
SEQ ID NO 1167
LENGTH: 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Search completed: February 9, 2003, 19:22:03 Job time : 103 secs
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Sequence 1167.7 Application US/09641638
Sequence 1167.7 Application US/09641638
GENERAL INFORMATION:
Bulmenfeld, Marta
APPLICANT:
APPLICANT:
Chen, Annick
APPLICANT:
Chen, Annick
TITLE OF INVENTION:
GENSET.051CPI
FILE REFERENCE:
GENSET.051CPI
CURRENT APPLICATION NUMBER: US/09/641,638
CURRENT FILING DATE: 2000-08-16
PRIOR FILING DATE: 2000-08-16
PRIOR FILING DATE: 2000-02-11
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                                                                                                                                                                                                          APPLICANT: Constance Emmett, Kimberly A. Foster
TITLE OF INVENTION: Universal Chemistry Enzyme-Linked
TITLE OF INVENTION: Universal Chemistry Enzyme-Linked
TITLE OF INVENTION: Immunosorbent Assay for Detection of
TITLE OF INVENTION: mRNA Expression
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jane Massey Licata, Esq.
STREET: 210 Lake Drive East, Suite 201
CITY: Cherry Hill
STATE: USA
COUNTRY: USA
ZIPTE: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 1.5%; Score 24; DB 5; Length 24; Best Local Similarity 100.0%; Pred. No. 7.2e+03; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE
COMPUTER: 1BM 486
OPERATING SYSTEM: WINDOWS FOR WORKGROUPS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/08142
FILING DATE: Herewith
CLASSIFICATION DATA:
APPLICATION NUMBER:
FILING DATE:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
AMME: Jane, MASSSY Licata
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Jane Massey Licata
REGISTRATION NUMBER: 32.257
REFRENCE/DOCKET NUMBER: TCEL-0039
TELECOMMUNICATION INFORMATION:
TELEPHONE: (609) 779-2400
TELEPHONE: (609) 779-4488
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                              Sequence 7, Application PC/TUS9608142 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        91 ATGACTTCCAAGCTGGCCGTGGCT 114
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                                              24 GTGTGGGTCTGTTGTAGGGTTGCC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 24
TYPE: Nucleic Acid
STRANDEDNESS: Single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: Linear;
ANTI-SENSE: NO
PCT-US96-08142-7
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                                                                                                                                                  PCT-US96-08142-7
                                                                                                                           RESULT 19
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February 9, 2003, 17:25:52 ; Search time 133 Seconds
(without alignments)
5841.285 Million cell updates/sec
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1 acaaactttcagagacagca......atataatttgttgtcaaagt 1639
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2. / cgn2_6/ptodate/2/pubpna/US06_NEW_PUB.seq:*
3. / cgn2_6/ptodate/2/pubpna/US06_NEW_PUB.seq:*
3. / cgn2_6/ptodate/2/pubpna/US06_NEW_PUB.seq:*
3. / cgn2_6/ptodate/2/pubpna/US06_NEW_PUB.seq:*
3. / cgn2_6/ptodate/2/pubpna/US08_NEW_PUB.seq:*
3. / cgn2_6/ptodate/2/pubpna/US08_NEW_PUB.seq:*
3. / cgn2_6/ptodate/2/pubpna/US08_NEW_PUB.seq:*
4. / cgn2_6/ptodate/2/pubpna/US08_PUBCOMB.seq:*
4. / cgn2_6/ptodate/2/pubpna/US08_PUBCOMB.seq:*
4. / cgn2_6/ptodate/2/pubpna/US09_PUBCOMB.seq:*
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4. / cgn2_6/ptodate/2/pubpna/US09_PUBCOMB.seq:*
4. / cgn2_6/ptodate/2/pubpna/US09_PUBCOMB.seq:*
4. / cgn2_6/ptodate/2/pubpna/US00_NEW_PUB.seq:*
4. / cgn2_6/ptodata/2/pubpna/US00_NEW_PUB.seq:*
4. / cgn2_6/ptodata/2/pubpna/US00_NEW_PUB.seq:*
4. / cgn2_6/ptodata/2/pubpna/US00_PUBCOMB.seq:*
4. / cgn2_6/ptodata/2/pubpna/US00_PUBCOMB.seq:*
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GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              408267 seqs, 237001491 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Published_Applications_NA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                     OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IDENTITY_NUC Gapox 1.0
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Perfect score:
Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Scoring table:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Searched:
                                                                                                                                                                                                          Run on:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

		ф				
Result No.	Score	Query Match	Query Match Length DB	DB	ID .	Description
	30.6	1.9	31	10	US-09-801-274-1358	Sequence 1358. Ap
~	30	1.8	30	10	US-09-816-124-4	Sequence 4. Appli
က	25	1.5	25	10	US-09-885-441-31	~
4	24	1.5	24	10	US-09-975-408-72	Sequence 72, Appl
Ŋ	24	1.5	24	12	US-10-075-579-72	Sequence 72, Appl
9	21.8	1.3	47	σ	US-09-853-526-250	50, 2
7	21.8	1.3	47	σ	US-09-853-526-327	Sequence 327, App
œ	21.8	1.3	47	10	US-09-901-484A-250	Sequence 250, App
σ	21.8	1.3	47	10	US-09-901-484A-327	Sequence 327, App
10	21.6	1.3	41	10	US-09-955-462A-1	Sequence 1, Appli
11	20.4	1.2	34	10	US-09-955-462A-2	Sequence 2, Appli
12	20.4	1.2	48	σ	US-09-864-785-3472	Sequence 3472, Ap
13	20.2	1.2	48	6	US-09-864-785-3568	Sequence 3568, Ap
14	20	1.2	20	10	US-09-975-408-73	Sequence 73, Appl
15	20	1.2	20	12	US-10-075-579-73	
16	20	1.2	28	10	US-09-142-593-40	Sequence 40, Appl
17	20	1.2	48	σ	US-09-864-785-3460	
18	19.8	1.2	43	σ	US-09-828-523A-96	Sequence 96, Appl
13	19.8	1.2	48	σ	US-09-825-805-64	Sequence 64, Appl

Sequence 9, Appli Sequence 45, A		ORPHISMS	. Length 31; . Indels 0; Gaps 0;	iting genes
45 9 US-10-017-736-9 49 10 US-09-73-385-3 50 9 US-09-989-2588-45 50 9 US-09-989-2384-45 50 9 US-09-989-735-45 50 9 US-09-989-735-45 50 9 US-09-989-735-45 50 9 US-09-991-181-45 50 9 US-09-991-181-45 50 9 US-09-991-181-45 50 9 US-09-991-181-45 50 10 US-09-991-181-45 50 10 US-09-991-732-45 50 10 US-09-989-722-45 50 10 US-09-989-723-45 50 10 US-09-989-732-45 50 10 US-09-989-733-45 50 10 US-09-991-163-45	ALIGNMENTS	09-801-274-1358 09-801-274-1358 equence 1358, Application US/09801274 atent No. US2002032319A1 APPLICANT: Cargill, Michele APPLICANT: Lander, Erics S. TITLE OF INVENTION: HUMAN SINCLE NUCLEOTIDE POLYMORPHISMS FILE REPERENCE: 2825.2009-001 CURRENT APPLICATION NUMBER: US/09/801,274 CURRENT FILING DATE: 2001-03-07 PRIOR APPLICATION NUMBER: US 60/187,510 PRIOR APPLICATION NUMBER: US 60/206,129 PRIOR FILING DATE: 2000-05-22 NUMBER OF SEQ ID NOS: 1802 SOFTWARE: FastSEQ for Windows Version 4.0 EDWICH: 31 TYPE: DNA ORGANISM: Homo sapiens 09-801-274-1358	1.9%; Score 30.6; DB 10.96.8%; Pred. No. 2.4e+03; Vative 1; Mismatches 0.	TTCCACCCCAAATTTATCAAAGAACTGAGAG 250
C 20 19.6 11.2 2.2 2.3 2.3 2.4 11.2 2.5 2.4 11.2 2.5 2.5 2.5 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6		RESULT 1 US-09-801-274-1358 Sequence 1358, Application US/09 Sequence 1358, Application US/09 EDERAL INFORMATION: APPLICANT: CATGILL, Michele APPLICANT: Ireland, James S. TITLE OF INVENTION: HUMAN SINGLE FILE REFERENCE: 2825.2009-001 CURRENT FLILING DATE: 2000-001 CURRENT FLILING DATE: 2000-001 PRIOR APPLICATION NUMBER: US 60 PRIOR FILING DATE: 2000-03-07 PRIOR FILING DATE: 2000-05-22 PRIOR FILING DATE: 2000-05-22 PRIOR FILING DATE: 2000-05-22 NUMBER OF SEQ ID NOS: 1802 SOFTWARE: FastSEQ for Windows V; SEQ ID NO 1358 LEWOTH: 31 TPEE: DAA ORGANISM: HOMO Sapiens US-09-801-274-1358	Query Match Best Local Similarity Matches 30; Conservat	Oy 220 TTCCACCCCAAATTTATC.

Gaps

. 0

Indels

Length 24;

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APPLICANT: Nanogen, Inc.
APPLICANT: Weidenhammer, Elaine M.
APPLICANT: Weidenhammer, Elaine M.
APPLICANT: Wang, Ling
APPLICANT: Wu, Xiao
APPLICANT: Ku, Xiao
APPLICANT: Kahl, Brenda F.
APPLICANT: Kahl, Brenda F.
APPLICANT: Rahl, Brenda F.
APPLICANT: Nanusher: 256/262 Patrick S. Eagleman
CURRENT APPLICATION NUMBER: US/10/075,579
CURRENT APPLICATION NUMBER: US/09/710,200
PRIOR FILING DATE: 2000-11-09
NUMBER OF SEQ ID NOS: 73
SOFTWARE: Patentin version 3.1
SEC ID NO 72
                                                                                                                                                                                                                                                        Score 24; DB 10; I. Pred. No. 3.3e+04; 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 24; DB 12; I
Pred. No. 3.3e+04;
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Sequence 250, Application US/09853526

GENERAL INFORMATION:

APPLICANT: Cohen, Daniel

APPLICANT: Blumenfeld, Marta

APPLICANT: Ilya, Chumakov

APPLICANT: Blupenfeld, Marta

APPLICANT: Blupenfeld, Marta

APPLICANT: Blupenfeld, Marta

APPLICANT: Blupenfeld, Lydie

TITLE OF INVENTION: PROSTATE CANCER GENE

FILE REFERENCE: GENEST: 18CPLCP

CURRENT FILING DATE: 2001-05:11

PRIOR APPLICATION NUMBER: 09/38,907

PRIOR PLILNG DATE: 1999-06-23

PRIOR PLILNG DATE: 1999-06-23

PRIOR PLILNG DATE: 1999-06-36

PRIOR FILING DATE: 1999-06-36

PRIOR FILING DATE: 1999-09-09
CURRENT FILING DATE: 2001-10-10
PRIOR APPLICATION UNBER: 09/710,200
PRIOR FILING DATE: 2000-11-09
NUMBER OF SEQ ID NOS: 73
SOFTWARE: Patentin version 3.1
SEQ ID NO 72
LENGTH: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-075-579-%2/c
Sequence 72, Application US/10075579
; Patent No. US/20020119484A1
; GENERAL INFORMATION:
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100.0%; Pre
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Best Local Similarity 100.0%; P
Matches 24; Conservative 0;
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                                                                                                                                                                 ; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-975-408-72
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US-10-075-579-72
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Best Local Similarity
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US-09-853-526-250/c
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| JERTEN NO. USZUUZU14940/A1|
| GENERAL INFORMATION:
| APPLICANT: Xiao, Yonghong
| TITLE OF INVENTION: Protease-1-Like Enzyme
| FILE REFERENCE: 04974.00312
| CURRENT APPLICATION NUMBER: US 60/212,844
| PRIOR APPLICATION NUMBER: US 60/212,844
| PRIOR FILING DATE: 2000-06-21
| PRIOR PAPLICATION NUMBER: US 60/279,766
| PRIOR FILING DATE: 2001-03-31
| PRIOR FILING DATE: 2001-03-31
| PRIOR FILING DATE: 2001-06-20
| NUMBER OF SEQ ID NOS: 58
| SOFTWARE: FastSEQ for Windows Version 4.0
| SEQ ID NO 31
| LENGTH: 25
                                                                                                                                                                                                                              TYPE: DNA CANALEM: Artificial Sequence FEGANIEM: PEPAURE: FEATURE: CTHER INFORMATION: Artificially synthesized primer sequence US-09-816-124-4
                                                                                                                                                                                                                                                                                                                                                                           Length 30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 25;
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100.0%; Pred. No. 2.2e+04;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                         DB 10;
3e+03;
                                                                                                                                                                                                                                                                                                                                                                      Query Match 1.8%; Score 30; DB Best Local Similarity 100.0%; Pred. No. 3e-Matches 30; Conservative 0; Mismatches
              CURRENT FILING DATE: 2001-03-26
PRIOR APPLICATION NUMBER: PCT/JP97/04126
PRIOR FILING DATE: 1997-11-12
PRIOR FILING DATE: 1996-11-15
NUMBER OF SEQ ID NOS: 4
SEQ ID NO 4
LENGTH: 30
CURRENT APPLICATION NUMBER: US/09/816,124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14 GACAGCAGACACACAGCTTCTAGGACAA 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30 GACAGCAGACACACAGCTTCTAGGACAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 3
US-09-885-441-31/c
; Sequence 31 Application US/09885441
; Parent No. US20020146407A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7 Application US/09975408
US20020150917A1
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Best Local Similarity 100.
Matches 25, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-885-441-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -09-975-408-7
Sequence 72
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Gaps

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Indels

Length 24;

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; LOCATION: [25]..(47)
; OTHER INFORMATION: complement potential microsequencing oligo 99-1480-290.mis2
US-09-901-484A-250
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OTHER INFORMATION: potential microsequencing oligo 99-1480-290.mis1
NAME/KEY: primer_bind
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                                         Length 47;
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OTHER INFORMATION: polymorphic fragment 99-1480-290
NAME/KEY: allele
                                                                                                                                                                        331 AAGGAAAACTGGGTGCAGAGGGTTGTGGAGAGTTTTTGAA 371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             331 AAGGAAAACTGGGTGCAGAGGGTTGTGGAGAAGTTTTTGAA 371
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Pred. No. 9.1e+04;
0; Mismatches 12;
                                                                                                                                                                                                       Score 21.8; DB 9;
Pred. No. 9.1e+04;
0; Mismatches 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/09/901,484A
CURRENT FILING DATE: 2001-07-09
PRIOR PAPLICATION NUMBER: US 08/996,306
PRIOR FILING DATE: 1997-12-22
PRIOR APPLICATION NUMBER: US 60/099,658
PRIOR FILING DATE: 1998-09-09
PRIOR FILING DATE: 1998-09-09
PRIOR PLICATION NUMBER: US 09/218,207
PRIOR APPLICATION NUMBER: US 09/338,907
PRIOR APPLICATION NUMBER: US 09/338,907
PRIOR APPLICATION NUMBER: US 09/853,526
PRIOR APPLICATION NUMBER: US 09/853,526
PRIOR PRILING DATE: 1999-06-23
PRIOR PRILING DATE: 2001-05-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: Cohen, Daniel
APPLICANT: Blumenfeld, Marta
APPLICANT: Chumakov, Ilya
APPLICANT: Bougueleret, Lydie
TITLE OF INVENTION: Prostate Cancer Gene
FILE REFERENCE: GEN-T111XC3D2
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APPLICANT: Cohen, Daniel
APPLICANT: Blumenfeld, Marta
APPLICANT: Chumakov, Ilya
APPLICANT: Bougueleret, Lydie
TITLE OF INVENTION: Prostate Cancer Gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCATION: (24). (24)
OTHER INFORMATION: polymorphic base G
NAME/KEY: primer_bind
                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 250, Application US/09901484A Patent No. US20020119460A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 327, Application US/09901484A Patent No. US20020119460A1
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Best Local Similarity 70.7%;
Matches 29; Conservative (
                                         1.3%;
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                                     Query Match
Best Local Similarity 70.78
Matches 29; Conservative
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                                                                                                                                                                                                                                                                                                                                   RESULT 8
US-09-901-484A-250/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: allele
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US-09-901-484A-327/C
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OTHER INFORMATION: polymorphic fragment 99-1480-290, variant version of SEQ ID250
NAME/KEY: allele
LUCATION: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: polymorphic base G
NAME/KEY: primer_bind
LOCATION: 1...23
COTHER INFORMATION: potential microsequencing oligo 99-1480-290.mis1
NAME/KEY: primer_bind
LOCATION: 25..47
COTHER INFORMATION: complement potential microsequencing oligo 99-1480-290.mis2
US-09-853-526-250
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NAME/KEY: primer_bind
LOCATION: 1..23
OTHER INFORMATION: potential microsequencing oligo 99-1480-290.mis1
LOCATION: 25..47
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                                                                                                                                                                                                                                                                                                                                LOCATION: 1..47
OTHER INFORMATION: polymorphic fragment 99-1480-290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   331 AAGGAAAACTGGGTGCAGAGGTTGTGGAGAAGTTTTTGAA 371
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APPLICANT: Cohen, Daniel
APPLICANT: Blumenfeld, Marta
APPLICANT: Blumenfeld, Marta
APPLICANT: Blumenfeld, Marta
APPLICANT: Ilya, Chumakov
APPLICANT: Bougueleret, Lydie
TITLE OF INVENTION: PROSTATE CANCER GENE
FILE REFERENCE: GENSET: 180-105-11
PRIOR PELICATION NUMBER: 08/996,306
PRIOR FILING DATE: 1999-06-23
PRIOR FILING DATE: 1997-12-22
PRIOR FILING DATE: 1997-12-22
PRIOR FILING DATE: 1998-09
PRIOR FILING DATE: 1998-09
PRIOR FILING DATE: 1998-12-22
NUMBER OF SEQ ID NOS: 578
SOFTWARE: PATENT PRIOR PATE: 1998-12-22
NUMBER OF SEQ ID NOS: 578
SOFTWARE: PATENT PA
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Patent No. US20020165345Al
GENERAL INFORMATION:
PRIOR APPLICATION NUMBER: 09/218,207
                              PRIOR FILING DATE: 1998-12-22
NUMBER OF SEQ ID NOS: 578
SOFTWARE: Patent.pm
                                                                                                                                                                                                                        ORGANISM: Homo Sapiens
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LOCATION: 24
                                                                                                                                                                                                                                                                                             NAME/KEY: allele
LOCATION: 1..47
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                                                                                                                           SEQ ID NO 250
LENGTH: 47
                                                                                                                                                                                                TYPE: DNA
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Ucable 12

Ucable 13472

Ucable 1
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APPLICANT: Wilusz, Carol
APPLICANT: Wilusz, Carol
APPLICANT: Gao, Min
TITLE OF INVENTION: Compositions and Methods for Reproducing and Modulating Mammal
TITLE OF INVENTION: Messenger RNA Decapping
FILE REFERENCE: 601-1-109N
CURRENT APPLICATION NUMBER: US/09/955,462A
CURRENT FILING DATE: 2002-04-30
PRIOR FILING DATE: 2000-09-19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12 GAGACAGCAGAGCACACAAGCTTCTAGGACAAGAGGCAGGAAGAAA 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; OTHER INFORMATION: described in specification page 29 US-09-955-462A-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1.2%; Score 20.4; DB 10;
23.3%; Pred. No. 1.5e+05;
tive 17; Mismatches 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.2%; Score 20.4; DB 9;
60.9%; Pred. No. 1.6e+05;
tive 2; Mismatches 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity 23.3%; Pred. No. 1.5e
Matches 7; Conservative 17; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1029 TTATTAACCTATTTATTATTTATGTATTTA 1058
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                 Sequence 2, Application US/09955462A Patent No. US20020150913A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 3
SOFWARE: Patentin version 3.1
SEQ ID NO 2
LENGTH: 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Artificial Sequence
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Best Local Similarity 60.9%
Matches 28; Conservative
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US-09-864-785-3568
                                                                                                                                                                                   US-09-955-462A-2
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Sequence No. US20020150913A1

GENERAL INFORMATION:

APPLICANT: Wilusz, Jeffrey

APPLICANT: Wilusz, Carol

APPLICANT: Wilusz, Carol

TITLE OF INVENTION: Compositions and Methods for Reproducing and Modulating Mammaliar

TITLE OF INVENTION: Messenger RNA Decapping

FILE REFERENCE: 601-1-109N

CURRENT FILING DATE: 2002-04-30

PRIOR FILING DATE: 2000-09-19

NUMBER OF SEQ ID NOS: 3

SOFTWARE: Patentin version 3.1

SED ID NO 1

LENGTH: 41
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NAME/KEY: allele

NAME/KEY: allele

LOCATION: (24)..(24)

OTHER INFORMATION: polymorphic fragment 99-1480-290, variant version of SEQ ID 250

LOCATION: (24)..(24)

OTHER INFORMATION: polymorphic base T; G in SEQ ID 250

NAME/KEY: primer_bind

LOCATION: (1)..(23)

OTHER INFORMATION: potential microsequencing oligo 99-1480-290.misl

NAME/KEY: primer_bind

LOCATION: (25)..(47)

OTHER INFORMATION: complement potential microsequencing oligo 99-1480-290.mis2

US-09-901-484A-327
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
1.3%; Score 21.8; DB 10; Length 47;
Best Local Similarity 70.7%; Pred. No. 9.1e+04;
Matches 29; Conservative 0; Mismatches 12; Indels
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: OTHER INFORMATION: described in specification page 28
US-09-955-462A-1
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CURRENT APPLICATION NUMBER: US/09/901,484A
CURRENT FILING DATE: 2001-07-09
RIOR APPLICATION NUMBER: US 08/996,306
PRIOR FILING DATE: 1997-12-22
PRIOR FILING DATE: 1998-09-09
PRIOR FILING DATE: 1998-09-09
PRIOR FILING DATE: 1998-12-22
PRIOR PILING DATE: 1999-06-23
PRIOR FILING DATE: 1999-06-23
PRIOR FILING DATE: 1999-06-23
PRIOR FILING DATE: 2001-05-11
NUMBER OF SEQ ID NOS: 578
SOFTWARE: PALENTIN VERSION 3.1
SOFTWARE: PALENTIN VERSION 3.1
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Best Local Similarity 85.7
Matches 24; Conservative
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US-09-955-462A-1
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APPLICANT: Wang, Ling
APPLICANT: Xu, Xiao
APPLICANT: Heller, Michael J.
APPLICANT: Heller, Michael J.
APPLICANT: Heller, Michael J.
TITLE OF INVENTION: IMPROVED METHODS FOR GENE EXPRESSION MONITORING ON ELECTRONIC FILE REFERENCE: 255/262 Patrick S. Eagleman
CURRENT APPLICATION NUMBER: US/09/710/75,579
PRIOR APPLICATION NUMBER: US/09/710,200
PRIOR APPLICATION NUMBER: US/09/710,200
NUMBER OF SEQ ID NOS: 73
SSOFTWARE: Patentin version 3.1
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Patent No. US30020016975a1
GENERAL INFORMATION:
APPLICANT: HACKETT ET AL.
TITLE OF INVENTION: DNA-BASED TRANSPOSON SYSTEM FOR THE
TITLE OF INVENTION: INTRODUCTION OF NUCLEIC ACID INTO DNA OF A CELL
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ..
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/142.503
FILING DATE: 10-SPD-1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE: MUETING, RAASCH & GEBHARDT, P.A. STREET. 119 NORTH FOURTH STREET, SUITE 203 CITY: MINNEAPOLIS STATE: MINNESOTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: SANDBERG, VICTORIA A.
REGISTRATION NUMBER: 41,287
REFERENCE/DOCKET NUMBER: 110.00450101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: PCT/US98/04687
FILING DATE: 11-MAR-1998
ATTORNEY/AGENT INFORMATION:
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APPLICATION NUMBER: 60/040,664
FILING DATE: 11-MAR-1997
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION BATA:
PRIOR APPLICATION NUMBER: 60/053,868
FILING DATE: 28-JUL-1997
PRIOR APPLICATION NUMBER: 60/065,303
FILING DATE: 13-NOV-1997
PRIOR APPLICATION DATA:
                                    Weidenhammer, Elaine M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: modified_base
CATION: (1)..(1)
CTHER INFORMATION: Biotinylated
US-10-075-579-73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            359 AGAAGTTTTTGAAGAGGGCT 378
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20; Conservative
                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 16
US-09-142-593-40/c
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                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 73
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
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APPLICANT: Stinchcomb, Dan

APPLICANT: Stinchcomb, Dan

APPLICANT: Stinchcomb, Dan

APPLICANT: Dan

TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate

TITLE OF INVENTION: Levels of NN-Kappa B

FILE REFERENCE: 400/022 (MHHB00-812-D)

CURRENT APPLICATION NUMBER: US/09/864,785

CURRENT FILING DATE: 2001-05-23

NUMBER OF SEQ ID NOS: 3929

SOFTWARE: Patentin version 3.0

LENGTH 48

LENGTH 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Weidenhammer, Elaine M.
APPLICANT: Weidenhammer, Elaine M.
APPLICANT: Weidenhammer, Elaine M.
APPLICANT: Weidenhammer, Elaine M.
APPLICANT: Will Strenger M.
APPLICANT: Will Strenger M.
TITLE OF INVENTION: IMPROVED METHODS FOR GENE EXPRESSION MONITORING ON ELECTRONIC MIC
FILE REFERENCE: 25/174 Partick S. Eagleman
CURRENT APPLICATION NUMBER: U5/09/975,408
PRIOR APPLICATION NUMBER: 09/710,200
PRIOR FILING DATE: 2000-11-09
NUMBER OF SEQ ID NOS: 73
SOFTWARE: Patentin version 3.1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid US-09-864-785-3568
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1.2%; Score 20.2; DB 9; Length 48; Best Local Similarity 63.4%; Pred. No. 1.7e+05; Matches 26; Conservative 2; Mismatches 13; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 10; I
1.6e+05;
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Best Local Similarity 100.0%; Pred. No.
Matches 20; Conservative 0; Mismatcl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PESULT 14
(US-09-975-408-73/c
: Sequence 73, Application US/09975408
: Patent No. US20020150917A1
: GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 73, Application US/10075579
Fatent No. US20020119484Al
GENERAL INFORMATION:
APPLICANT: Nanogen, Inc.

    LOCATION: (1)..(1)
    OTHER INFORMATION: Biotinylated
US-09-975-408-73

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LENGTH: 20
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APPLICANY: Karpelsky, Aunest
APPLICANY: Karpelsky, Alex
APPLICANY: Adeandary, Jasenka Matulic
APPLICANY: Adeanic, Jasenka Matulic
APPLICANY: Sweedler, Dave
APPLICANY: Zinnen, Shawn
TITLE OF INVENTION: Nuclectide Triphosphate and their Incorporation into Oligonucl
FILE REFERENCE: MHH800-831-F (400/009)
CURRENT PILING DATE: 2001-09-27
PRIOR APPLICATION NUMBER: 09/476,387
PRIOR FILING DATE: 1999-12-39
PRIOR FILING DATE: 1999-12-29
PRIOR FILING DATE: 1999-12-29
PRIOR FILING DATE: 1999-12-29
PRIOR FILING DATE: 1999-10-48
PRIOR APPLICATION NUMBER: 09/474,432
PRIOR APPLICATION NUMBER: 09/476,55
PRIOR FILING DATE: 1999-11-04
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/064,866
PRIOR FILING DATE: 1998-11-05
PRIOR FILING DATE: 1998-01-05
PRIOR FILING DATE: 1998-11-05
PRIOR FILING DATE: 1998-01-05
PRIOR PRIO
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                                                                                                                                                                Gaps
                                                                                                                                                             ;
                                                                                                 Length 43;
                                                                                                                                                                Indels
                                                                                                                                                             12;
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                                                                                                    DB 9;
                                                                                                                                                                                                                                                                                  4 ATCTGCAAATAATATCTTTTAATTTTAAAATTAAAGAAT 42
                                                                                              Score 19.8; DB 9
Pred. No. 2e+05;
0; Mismatches 1
; OTHER INFORMATION: Oligonucleotide Primer US-09-828-523A-96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Ribozyme Pharmaceuticals, Inc. APPLICANT: Beigelman, Leo APPLICANT: Beaudry, Amber
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: 2'-deoxy-2'-amino NAME/KEY: misc_feature
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OTHER INFORMATION: 2'-deoxy-2'-amino
                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 64, Application US/09825805; Publication No. US20030004122A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCATION: (12)..(21)
OTHER INFORMATION: 2'-O-Methyl
NAME/KEY: Misc_feature
LOCATION: (43)..(47)
OTHER INFORMATION: 2'-O-Methyl
NAME/KEY: Misc_feature
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LOCATION: (1)...(10)
OTHER INFORMATION: 2'-0-Methyl
NAME/KEY: misc_feature
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                                                                                                 1.2%;
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Best Local Similarity 69.29
Matches 27; Conservative
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LOCATION: (37)..(39)
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APPLICANT: Stinchcomb, Dan
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
TITLE OF INVENTION: Levels of NF-Kappa B
FILE REFRENCE: 400/022 (MeHBB00-812-D)
CURRENT APPLICATION NUMBER: US/09/864,785
CURRENT FILING DATE: 2001-05-23
NUMBER OF SEQ ID NOS: 3929
SEQ ID NOS: 3929
SEQ ID NO 3460
LENGTH: 48
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| Sequence 96, Application US/09828523A
| GENERAL INFORMATION:
| GENERAL INFORMATION:
| TILLE OF INVENTION: ANTIMICROBIAL METHODS AND MATERIALS
| FILE REFERENCE: 268.62120101
| CURRENT APPLICATION NUMBER: US/09/628,523A
| CURRENT FILING DATE: 2001-04-06
| PRIOR FILING DATE: 2000-04-06
| NUMBER OF SEQ ID NOS: 99
| SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 20; DB 9; Length 48;
Pred. No. 1.9e+05;
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                                                                                                                                                                                                                                                                                                                                                                             Query Match
1.2%; Score 20; DB 10; L
Best Local Similarity 82.1%; Pred. No. 1.7e+05;
Matches 23; Conservative 0; Mismatches 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        75 CTCACTGTGTGAACATGACTTCCAAG 102
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELECOMMUNICATION INFORMATION:
TELEPHONE: 612-305-1226
TELEFAX: 612-305-1228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 1.2%;
Best Local Similarity 61.4%;
Matches 27; Conservative 2
                                                                                                                                                                                                                                                                                        MOLECULE TYPE: DNA (genomic)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Artificial Sequence
                                                                     TELEFAX: 612-305-1228
INFORMATION FOR SEQ ID NO: 4
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                  linear
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US-09-864-785-3460
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US-09-828-523A-96
                                                                                                                                                                                                                                                               TOPOLOGY:
                                                                                                                                                                                                                                                                                                                     US-09-142-593-40
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LENGTH: 43
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; OTHER INFORMATION: n stands for inverted deoxyabasic derivative US-09-825-805-64
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                                                                Query Match 1.2%; Score 19.8; DB 9; Length 4
Best Local Similarity 59.6%; Pred. No. 2e+05;
Matches 28; Conservative 2; Mismatches 17; Indels
                                                                                                                                                                                                                                                                 RESULT 20
US-10-017-736-9/C
; Sequence 9, Application US/1001736
; Publication No. US20020192640A1
; GENERAL INFORMATION:
; APPLICANT: Boehringer Ingelheim (Canada) Ltd.
; TITLE OF INVENTION: Purified Active HCV NS2/3 Protease;
; FILE REFERENCE: 13/082
; CURRENT APPLICATION NUMBER: US/10/017,736
; CURRENT APPLICATION NUMBER: 60/256,031
PRIOR FILING DATE: 2000-12-14
; PRIOR FILING DATE: 2000-12-15
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 45
; TYPE: DAR
; ORGANISM: HCV
US-10-017-736-9
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Search completed: February 9, 2003, 19:24:29 Job time : 136 secs

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February 9, 2003, 17:18:47; Search time 2362 Seconds (without alignments) 11238.104 Million cell updates/sec
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1639
1 acaaactttcagagacagca.....atataatttgttgtcaaagt 1639
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GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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gb_est:*
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em_gss_hum:*
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Maximum DB seq length: 50
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Perfect score:
Sequence:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

em_gss_mus:* em_gss_other:* em_gss_pro:* em_gss_rod:*

SUMMARIES		ID Description	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7 AZ404728 1M0173T08		1 BJ015/38 B.1015738	2000000	07/67/10			BIO54665	000 #0000	AZ333209 1M0062110
		Match Length DB ID		43 17		40 I3	50 12		16 11	**	49 13	1	49 17
di	Query	Score Match		23.8 1.5									
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ALIGNMENTS

	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Euthbria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 43) Dunn,D., Aoyaqi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Welss,R.	and Wirght, D. Welss, R. Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts Unpublished (2000) Contact: Robert B. Welss University of Utah Genome Center University of Utah Rm. 308, Blomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA Tel: 801 585 5606 Fax: 801 585 5006 Fax: 801 585 7177 Email: ddunn@enetics.utah.edu Insert Length: 10000 Std Error: 0.00
RESULT 1 AZ404728 LOCUS DEFINITION ACCESSION VERSION KEYWORDS SOURCE ORGANISM	REFERENCE AUTHORS	TITLE JOURNAL COMMENT

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/Lissue_type="hypernephroma"
//lab_host="hypernephroma"
//lab_host="nypernephroma"
//lab_host="nyperne
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En (Dases) Lo 50)

Si NIH-MGC http://mgc.nci.nih.gov/.

In Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-rémail.nih.gov

Tissue Procurement: ATCC

CDNA Library Preparation: CLONFTECH Laboratories, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:

http://maqe.llnl.gov

Plate: LLCM494 row: m column: 03.
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                                                                                              /sex="mixture of female and male"
/tissue_type="whole embryo"
/dev_stage="segmentation stage 20 - 25"
                                                                                                                                                                                                                                                                                                                                                                                                                               1582 TTGTATGGAAATATAAAAGTAAATATGAAACATTTAAAATATAAT 1626
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Pred. No. 2.8e+06;
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/db_xref="taxon:8090"
/clone="MF01SSA003D06"
/clone_lib="MF01SSA cDNA"
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/clone="IMAGE:3826730"
/clone_lib="NIH_MGC_58"
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1 Similarity 68.1%;
32; Conservative (
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                                                                                                                                                                                                                                                                                                                                                                                   /lab_host-we.
/lab_rotatory Mouse DNA Resource
/laboratory Mouse DNA Resource.
/laboratory Mouse DNA Resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 luch orifice at constant velocity. The sheared DNA
was blunt end repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gal
electrophoresis. Vector DNA was prepared from a derivative
of pwD42 (gil4732114[gb]AR129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XLIO-Gold (Stratagene) cells
and selected for ampicillin resistance.
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1 (bases 1 to 46)
Medaka EST Project in Takeda's lab
Unpublished (2001)
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                                                                                                                                                                                                                                                                                                                                    /clone_lib="Mouse 10kb plasmid UUGC1M library"
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Tel: 81-559-81-6856
Fax: 81-559-81-6855
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Center For Genetic Resource Information
National Institute of Genetics
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/strain="Hd-rR"
      Plate: 0173 row: I column: 08
Seg primer: CGTTGTAAAAGGGCGCCAGT
Class: plasmid ends
High quality sequence stop: 43.
                                                                                                                                                                                                       /organism="Mus musculus"
                                                                                                                                                                                                                                     /strain="C57BL/6J"
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Location/Qualifiers
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BJ015738.1 GI:17410289
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/strain="C57BL/6J"
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/db_xref="taxon:3708"
/clone="bn01_01c23"
/clone=lb="bn01_AAFC_ECORC_transgenic_Brassica_napus_over
expressing_BNCBF17_constitutively_frost_tolerant"
/tissue_type="fourth leaf"
/dev_stage="3 weeks seedling grown at room temperature"
/dev_stage="3 weeks seedling grown at room temperature"
/note="vector: Bluescript SK+/XhoI-EcoRI; Site_1: EcoRI;
Site_2: XhoI; Germinated in soil flats and seedlings grown
for 3 weeks in a Conviron E-15 cabinet set at 200c /16 hr
light (250 Em-2sec-1) and 16 oc / 8 hr dark. Fourth leaves
collected at 9 am and immediately frozen."
                                                     BQ704909

46 bp mRNA linear EST 16-JUL-2202
Bn01_JOLC3_A
Bn01_AAFC_ECORC_transgenic_Brassica_napus_overexpressing_BNCBF17_constitutively_frost_tolerant Brassica_napus_constructione Bn01_01c23, mRNA sequence.

BQ7049091
GI:21844328
                                                                                                                                                                                                                                                                                                                                  1 (bases 1 to 46)
Singh,J., Allard,G., Tinker,N., Robert,L., Lacroix,C., De Moors,A.,
Chagnon,J., Farah,S., Couroux,P. and Hattori,J.
Expressed Sequence Tags from constitutively frost tolerant
transgenic Brassica napus overexpressing BNCBF17
Unpublished (2002)
Contact: Singh,J.A.
Eastern Cereal and Oliseed Research Centre
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BJ054665 NIBB Mochii normalized Xenopus neurula library Xenopus lavis cDNA clone XL044pl3 3', mRNA sequence.
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                                                                                                                                                                                                                                                                      Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta, Spermatophyta, Magnoliophyta, eudicotyledons, core eudicots, Rosidae, eurosids II, Brassicales, Brassicaceae, Brassica.
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Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
Xenopodinae; Xenopus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Agriculture and Agri-food Canada
KW Neatby Bldg., Central Experimental Farm, Ottawa, Ontario, KIA
0C6, Canada
Tel: (613) 759-1662
Fax: (613) 759-1701
Email: slighja@em.ggr.ca.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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Matches 27; Conserv
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SOURCE
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                 RESULT 4
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata; Craniatah; Muridae; Murinae; Mus.

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

(Dases 1 to 49)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Malmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.
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49 bp DNA linear GSS 29-SEP-200
1M0062L10F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0062L10 F, DNA sequence.
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Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 306, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mouse whole genome scaffolding with paired end reads from 10\mathrm{kb} plasmid inserts
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                                                                                                                                                                                                                                                              /organism="Xenopus laevis"
/dxxref="kexon:8355"
/clone="xL044p13"
/clone_lib="NIBB Mochii normalized Xenopus neurula
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Expressed genes in X. laevis embryo (npublished (2001) (ontact: Tadasu shin-i Center For Genetic Resource Information National Institute of Genetics (111) Yata, Mishima, Shizuoka 411-8540, Japan Tel: 81-559-81-6856 Fax: 81-559-81-6855 Email: tshini@genes.nig.ac.jp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1580 GATTGTATGGAAATATAAAAGTAAATATGAAACATTTAAAATA 1622
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Pred. No. 3.1e+06;
0; Mismatches 13
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Insert Length: 10000 Std Error:
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Seg primer: CGTTGTAAAACGACGCCCAGT
Class: plasmid ends
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Location/Qualifiers
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AZ333209.1 GI:10397601
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Best Local Similarity 69.8%
Matches 30; Conservative
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Fax: 801 585 7177
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Gaps

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EST 31-JUL-1998

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/clone_lib="Schizosaccharomyces pombe late log phase cDNA"/sex="h minus"
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Morimyo,M. and Mita,K.
Identification of expressed sequence tags of Schizosaccharomyces
                                                                                                                                                                                                                                                                                                                                AU009444 Innear EST 31-JU AU009444 Schizosaccharomyces pombe late log phase CDNA Schizosaccharomyces pombe CDNA clone spc04923, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unpublished (1998)
Contact: Mitsucki Morimyo
Cenome Research Group
National Institute of Radiological Sciences
9-1, Anagawa 4-chome, Inage-ku, Chiba, Chiba 263-8555,
Email: morimyo@nirs.go.jp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note="Vector: M13mp19; The cDNA library of
                                                                        Length 46;
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68.9%; Pred. No. 3.4e+06;
tive 0; Mismatches 14;
                                                                        Score 22.6; DB 9;
Pred. No. 3.4e+06;
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    1.4
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/db_xref="taxon:4896"
/clone="spc04923"
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Dictyostelium discoideum
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Best Local Similarity
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AU009444
LOCUS
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KEYWORDS
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AU266602
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                                                                                                                                                                             (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end repaired with 74 DNA polymerase and 74 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pwalvel (gilfa722114 gpl.RF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
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/clone="spc04922"
/clone_lib="Schizosaccharomyces pombe late log phase cDNA"
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                                                                                                              /note-"Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 (bases 1 to 46)
Morimyo,M. and Mita,K.
Identification of expressed sequence tags of Schizosaccharomyces
                                                                                         /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
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Contact: Mitsuoki Morimyo
Contact: Mitsuoki Morimyo
Genome Research Group
Mational Institute of Radiological Sciences
9-1, Anagawa-4-chome, Inage-ku, Chiba, Chiba 263-8555, Japan
Email: morimyo@nirs.go.jp.
Location/Qualifiers
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                /clone="UUGC1M0062L10"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 1.4%; Score 22.8; DB 17; Length 49; Best Local Similarity 71.4%; Pred. No. 3.1e+06; Matches 30; Conservative 0; Mismatches 12; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1139 TAAATTTATTTTAGATATTAAATGATGTTTTATTAGA 1180
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           43 TAATTATATATAATATATATATATATATATATATATA 2
/db_xref="taxon:10090"
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AU009443.1 GI:3346123
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Query Match
Best Local Similarity
Matches 29; Conserv
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AUTHORS
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Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L.,
Melville, S.E., Rajandream, M.A. and Barrell, B.G.
Direct Submission
Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing
project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,
Cambridge CBIO 1SA, E-mail: barrell@sanger.ac.uk and
nhl@sanger.ac.uk
Constructed at the Institute for Genomic Research (TIGR),
Rockville, MD. Genomic DNA isolated from a cloned population of
Trypanosoma brucei (TREUS274) GUTat 10.1) was mechanically sheared
to give a tight size distribution (
4 kb). The v + i method used for the library construction is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;;
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Details of T. brucei sequencing at the Sanger Centre are available
at http://www.sanger.ac.uk/Projects/T_brucei/
Location/Qualifiers
  Urushihara, H., Morio, T., Saito, T., Koriki, E., Ochiai, H., Maeda, M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. Genome Sequencing: A Practical Approach, eds. M. Vaudin and B. Barrell, Oxford University Press, 1999).
                 Takeuchi,I., Kohara,Y. and Tanaka,Y.
Population analysis of cDNAs from unicellular and multicellular stages of Dictyostellum discoideum
Unpublished (2002)
Contact: Hideko Urushihara
Institute of Biological Sciences
University of Tsukuba
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                576 CAGAACATACTTATATGTAAAGTATTATTTATTTGAATCTACAAAAA 623
                                                                                                                                                        1-11 Tennoudai, Tsukuba, Ibaraki 305-8572, Japan
Tel: 81-298-53-4664
Fax: 81-298-53-6614
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    .48
    /organism="Dictyostelium discoideum"

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Pred. No. 3.6e+06;
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/strain="TREU927"
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                                                                                                                                                                                                                           Email: hideko@biol.tsukuba.ac.jp.
Location/Qualifiers
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3 c 1 q
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/clone="VSG534"
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/clone="26e09"
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Trypanosoma brucei
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(bases 1 to 48)
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Best Local Similarity
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TA26E09Q
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                                                                                                                                                                                                                                                                                                                                                                               A2346760 49 bp DNA linear GSS 29-SEP-2000 1M0082F12F Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0082F12 F, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 49)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          plasmid inserts
(Dipublished (2000))
(Dipublished (2000))
(Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note="Vector: PwD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson
                                                                           Gaps
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/clone="UUGCIMO082F12"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
1.4%; Score 22.4; DB 17; Length 48; 72.5%; Pred. No. 3.6e+06; Live 0; Mismatches 11; Indels
                                                                                                                                            1485 ATATTATTTAAATGACTGCATTTTTAAATACAAGGCTTTA 1524
                                                                                                                                                                                7 ATATTAATTACAAGTGTGCAACATTAAATACAAGTGTGTA 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tel: 801 585 5606
Fax: 801 585 7177
Email: ddun(genetics.utah.edu
Lorrt Length: 10000 Std Error: 0.00
Plate: 0082 row: F column: 12
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Class: plasmid ends
High quality sequence stop: 49.
Location/Qualifiers
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/organism="Mus musculus"
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                                                                       Conservative
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Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                            /strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGCIM0444C09"
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les 27; Conserv
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KEYWORDS
SOURCE
ORGANISM
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BJ078372
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     AUTHORS
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                                                                               TITLE
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                                                                                                                                                                                                                                                                                                                                                          Pneumocystis carinii f. sp. carinii.

Pneumocystis carinii f. sp. carinii

Bukaryotai Fungi: Ascomycota; Pneumocystidomycetes;

Pneumocystidaceae; Pneumocystis.

E 1 (bases 1 to 50)

S Smullan,A.G., Arnold,J., Weise,M., Wunderlich,J., Staben,C., Edman,J.C., Kovacs,J. and Cushion,M.

Expressed sequence tags from Pneumocystis carinii

L (ontact: Staben C
School of Biological Sciences
University of Kentucky
101 Morgan Bullding, University of Kentucky, Lexington, KY
                                                                                                                                                                                                                                                      EST 31-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Anotes Vector: Lambda ZAP II; Site_1: EcoRI; Site_2: XhoI; P. carinii organisms (3x10e9) from a single rat (99-1-6, sacrificed on 3/17/9) at Cincinnati VA facilities.
Trizol extracted RNA. Oligo dT priming, standard conditions described by vendor, Stratagene. Further
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 40)
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40 bp DNA linear GSS 13-DEC-20C 1M0444C09F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0444C09 F, DNA sequence.
                                                                               Gaps
                                                                                                                                                                                                                                              AW333744 50 bp mRNA linear EST 31-JAN S25E9 AGS-1 Pneumocystis carinii f. sp. carinii cDNA 3', mRNA
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/db_xref="taxon:38081"
/done_lib="AGS-1"
/lab_host="E. coli"
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                                         Length 49;
                                                                                                               1143 TTTATTTTATTTAGATATTAAATGATGTTTTATTAGATAAATTTCAA 1190
                                                                             Indels
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66.7%; Pred. No. 3.6e+06;
1tive 0; Mismatches 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Email: staben@pop.uky.edu.
Location/Qualifiers
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                                                                         Conservative
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Tel: 606 257 2161
Fax: 606 257 1717
                                   Query Match
Best Local Similarity
Matches 32; Conserv
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AZ615013
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(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orlifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gal electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gil4732114(gb)AR129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically competent E. coll XL10-Gold (stratagene) cells and selected for ampicillin resistance."
                                                                                                                                                                                                                                                                                                                                                                         \rm Rm.~308 , Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
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Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Stam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, M., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Amphibia, Batrachia, Anura, Mesobatrachia, Pipoidea, Pipidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /lab_host="E. Coli strain XLIO-Gold, Tl-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/GJ (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                                   Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
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                                                                                                                                                                                                                                                                                                                                                                                                                                             Tel: 801 585 5606
Fax: 801 585 7177
Email: doundegenetics.utah.edu
Insert Length: 10000 Std Error: 0.
Plate: 0444 row: C column: 09
Seq primer: CGTYGTAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 40.
Location/Qualifiers
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Query Match . 1.38
Best Local Similarity 67.48
Matches 31; Conservative
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Best Local Similarity
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BG179823
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0
                                                                                                                                                                                                                                                                                                             /tissue_type="whole embryo"
/dev_stage="stage 25"
/note="Vector: pBSRN3; Site_1: Not1; Site_2: EcoRI; cDNAs were oligo-dr primed and directionally cloned. Staging according to Nieuwkoop and Faber. Library is subtracted and was constructed by N. Garrett and A.M. Zorn, (Wellcome/CRC Institute). "
a 6 c 5 g 13 t
 1 (bases 1 to 48)
Kitayama, A., Terasaka, C., Mochii, M., Ueno, N., Shin-i, T. and Kohara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Dictyostelium discoideum.
Dictyostelium discoideum.
Dictyostelium discoideum.
Dictyostelium discoideum.
1 (bases 1 to 50)
Urushihara, H., Morio, T., Saito, T., Koriki, E., Ochiai, H., Maeda, M., Population analysis of CONAs from unicellular and multicellular stages of Dictyostelium discoideum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                 /organism="Xenopus laevis"
/db_xref="taxon:8355"
/clone="XL063p03"
/clone_ilb="NIBB Mochii normalized Xenopus tailbud
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Tel: 81-298-53-4664
Fax: 81-298-53-6614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism="Dictyostelium discoideum"
                                                              Unpublished (2001)
Contact: Tadasu Shin-i
Conter For Genetic Resource Information
National Institute of Genetics
1111 Yata, Mishima, Shizuoka 411-8540, Japan
Fax: 81-559-81-6855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 1.4%; Score 22.2; DB 13; Best Local Similarity 77.1%; Pred. No. 3.9e+06; Matches 27; Conservative 0; Mismatches 8;
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                                      Expressed genes in X. laevis embryo
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Contact: Hideko Urushihara
Institute of Biological Sciences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Email: hideko@biol.tsukuba.ac.jp.
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/clone="VSI266"
                                                                                                                                                                                  Email: tshini@genes.nig.ac.jp.
Location/Qualifiers
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bl/434/2 49 bp mRNA linear EST 25-SEP-2001 rk8la10.y3 Meloidogyne javanica egg pAMPl v6 Chiapelli McCarter Bl745472
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                                                                                                                                                                                                                                                                            BG179823 49 bp mRNA linear EST 06-FEB-2001 602329028F1 NIH_MGC_91 Homo sapiens cDNA clone IMAGE:4430262 5',
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Eukaryota; Metazoa; Nematoda; Chromadorea; Tylenchina;
                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note="Organ: prostate; Vector: pCMV-SPORT6; Site_1: Not1
Site_2: Sal1; Cloned unidirectionally; oligo-dT primed.
Average insert size 1.4 kb. Library enriched for
full-length clones and constructed by Life Technologies.
Note: this is a NIH_MGC Library."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM10183 row: h column: 07
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(bases 1 to 49)

NIH-MGC http://mgc.nci.nih.gov/..
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-rémail.nih.gov
Tissue Procurement: DCTD/DTP
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0
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Score 22; DB 9; Lengtn ou, Pred. No. 4.2e+06;
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/lab_host="DH10B (phage-resistant)"
                                                                                                                                         578 GAACATACTTATATGTAAAGTATTTATTTTGAATCTACAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 21.6; DB 12;
Pred. No. 5e+06;
0; Mismatches 14;
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    1.3%; SCc. No. 4...
67.4%; Pred. No. 4...
0; Mismatches
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/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /clone="IMAGE:4430262"
/clone_lib="NIH_MGC_91"
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ilarity 68.2%;
Conservative (
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                                                                                                                                                                                                                                                                                                                        mRNA sequence.
BG179823
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8

COMMENT

us-09-960-143-3.rst

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Arabidopsis thaliana
Eukaryota: Viridiplantae: Streptophyta; Embryophyta: Tracheophyta:
Spermatophyta: Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
1 (bases 1 to 44)
Alonso,J.M., Leisse,T.J., Barajas,P., Chen,H., Cheuk,R., Gadrinab,C., Jeske,A., Karnes,M., Kim,C.J., Parker,H., Prednis,L., Shinn,P., Zimmerman,J. and Ecker,J.R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /strain="Columbia 0"
/db_xref="taxon:3702"
/clone="SALK_076208.37.05.x"
/clone="SALK_076208.37.05.x"
/clone="PCR was performed on Arabidopsis thallana lines each of which contains one or more TDNA insertion elements. The resultant fragment for each line was directly sequenced to determine the genomic sequence at the site of insertion. Details of the protocols used can be found at http://signal.salk.edu/tdna_protocols.html"

4 c 6 9 19 t
                                                                                                                                                             /clone_lib="Nori Satch unpublished cDNA library, egg"
/tissue_type="whole animal"
/dev_stage="egg"
/note="Vector: pallusscript SK" 4 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This is single pass sequence recovered from the left border of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BH853222 44 bp DNA linear GSS 13-JUN SALK_076208.37.05.x Arabidopsis thaliana TDNA insertion lines Arabidopsis thaliana genomic clone SALK_076208.37.05.x, DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: Joseph R. Ecker
Salk Institute Genomic Analysis Laboratory (SIGNAL)
The Salk Institute for Biological Studies
10010 N. Torrey Pines Road, La Jolla, CA 92037, USA
Tel: 858 453 4100 x1752
Fax: 858 558 6379
                                                                                                                                                                                                                                                                                                                                                                                                                                   600 ТТАТТТАТТТСААТСТАСАААААСААСААСААТАТТТТСААТАТАА 646
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 21.4; DB 17;
Pred. No. 5.6e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11
                                                                                                                                                                                                                                                                                                                                      DB 10;
                                                                                                                                                                                                                                                                                                                                                                                      17;
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                      Email: satoh@ascidi.an.zool.kyoto-u.ac.jp.
                                                                                       /organism="Ciona intestinalis"
/db_xref="taxon:7719"
/clone="cieg14i18"
                                                                                                                                                                                                                                                                                                                                                                  5e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
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Pred. No. 5e
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                                                 Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                      1.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ecker@salk.edu
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71.8%;
Fax: 81-75-705-1113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Arabidopsis Genome
Unpublished (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Class: TDNA tagged
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BH853222
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KEYWORDS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                The library was constructed by Brandi Chiapelli and Dr. James McCarter (Pohlapelle@atson.wustl.edu & jmccarte@watson.wustl.edu) at Washington University, St. Louis. DNA Sequencing by: Washington University Genome Sequencing Center St. Louis.
Putative full length read
The vector to vector length is 50.

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note="Vector: pAMP1 (Gibco); The library was constructed by Brandi Chiapelli and Dr. James McCarter at Washington University, St. Louis. The cDNA was made by using Dynabead oligo-dT priming (Dynah). PCR based library using a modified protocol from the SMART PCR cDNA Synthesis Kit from Clontech. Directionally cloned into the UDG sites of PAMP1. Nematodes were provided by Dr. David Bird of North Carollina State University.
                   McGarter, J. Clifton, S., Chiapelli, B., Pape, D., Martin, J., Wylie, T. McGarter, J., Clifton, S., Chiapelli, B., Pape, D., Martin, J., Wylie, T., Gibbons, M., Ritter, E., Bennett, J., Franklin, C., Tsagareishvili, R., Ronko, I., Kennedy, S., Magulire, L., Beck, C., Underwood, K., Steptoe, M., Allan, M., Person, B., Swaller, T., Harvey, N., Schurk, R., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Meloidogyne javanica"
/db_xref="taxon:6303"
/clone_lib="Meloidogyne javanica egg pAMP1 v6 Chiapelli
McCarter"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                  The Washington Univ. Nematode EST Project, 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Tylenchoidea; Heteroderidae; Meloidogyninae; Meloidogyne.
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Unpublished (1999)
Contact: McCarter JP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1158 ATATTAAATGATGTTTTATTAGATAAATTTCAATCAGGGTTTTT 1201
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/lab_host="DH10B"
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Pred. No. 5e+06;
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Department of Zoology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ch 1.3%;
1 Similarity 68.2%;
30; Conservative
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Sakyo-ku, Kyoto, Ky
Tel: 81-75-753-4081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ciona intestinalis
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Shinn, P.

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Gaps

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Indels

Length 44;

COMMENT

SOURCE

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GSS 13-JUN-2002

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Gaps

0;

Indels

Length 50;

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BH850240 45 bp DNA linear GSS 13-JUN-2002 SALK_071000.50.25.x Arabidopsis thaliana TDNA insertion lines Arabidopsis thaliana genomic clone SALK_071000.50.25.x, DNA
                                                                                                                                                                                                                                                                                                                                   Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae: eurosids II; Brassicales; Brassicaceae; Arabidopsis.
1 (bases 1 to 45)
Alonso,J.M., Leisse,T.J., Barajas,P., Chen,H., Cheuk,R., Gadrinab,C., Jeske,A., Karnes,M., Kim,C.J., Parker,H., Prednis,L., Shinn,P.
A Sequence-Indexed Library of Insertion Mutations in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /db_xref="taxno:3702"
/Clone="SALK_071000.50.25.x"
/Clone="lb="Arabidopsis thaliana TDNA insertion lines"
/note="PCR was performed on Arabidopsis thaliana lines each of which contains one or more TDNA insertion elements. The resultant fragment for each line was directly sequenced to determine the genomic sequence at the site of insertion. Details of the protocols used can be found at http://signal.salk.edu/tdna_protocols.html"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Arabidopsis Genome
Unpublished (2001)
Contact: Joseph R. Ecker
Salk Institute Genomic Analysis Laboratory (SIGnAL)
The Salk Institute for Biological Studies
10010 N. Torrey Pines Road, La Jolla, CA 92037, USA
Tel: 858 453 4100 x1752
Fax: 888 558 6379
Email: ecker@salk.edu
This is single pass sequence recovered from the left border of
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Best Local Similarity 71.8%; Pred. No. 5.6e+06;
Matches 28; Conservative 0; Mismatches 11; Indels
1122 TTATAAAGATGTTATAGTAAATTTATTTTTTAGATA 1160
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/organism="Arabidopsis thaliana"
                      Location/Qualifiers
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вн850240
вн850240.1 GI:21421111
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Search completed: February 9, 2003, 19:20:11 Job time : 2368 secs THIS PAGE BLANK (USPTO)

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(without alignments)
10855.957 Million cell updates/sec
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23.51DS2/gcgdata/geneseqr=embl_NA20011A.DAT:*
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                                                                                                                                                                            ; Search time 340 Seconds
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GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2185239 seqs, 1125999159 residues
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                                                                                                                  OM nucleic - nucleic search, using sw model
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1639
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                                                                                                                                                                                                                                                                                                                                                                                                                       Scoring table:
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                                                                                                                                                                               Run on:
                                                                                                                                                                                                                                                                                                  Title:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

QI .					18 AAT76366				.4 AAQ37164
DE	:								
Length DB	37	37	37	37	34	34	34	34	33
Query Match	2.3	2.3	2.3	2.3	2.1	2.1	2.1	2.1	2.0
Score	37	37	37	37	34	34	34	34	33
Result	-	~	m	4	Ŋ	9	7	æ	σ
Res	9	1.16		o /	٥ /	၁ (°	ڒ	ပ

Human interleukin Human IL-8 antisen Human interleukin-Low adenosine anti Anti-sense primer

Monocyte-derived n Human monocyte der Human MDNCF antise

Description

Low adenosine anti

33 2.0 33 2.0 33 2.0 31 1.9 30 1.8 30 1.8 31 1.7 25 25 1.5 25 1.5 27 1.5 28 1.7 29 1.4 23 1.4 24 1.5 25 1.5 26 1.5 27 1.5 28 1.7 29 1.5 29 1.6 20 1.4 20	AAT38979 AAV65360 AAV65360 AAV45913 AAT45913 AAT45757 AAT45757 AAV57562 AAV35781 AAV35781 AAV4558 AAV35781 AAV4558 AAV4558	24 ADD 2002 PORTION PRIMER. SECTION PARADEL 18 AAT 61103 Chimeric chemokine 17 AAT 20243 Human interleukin- 18 AAT 20243 Human interleukin- 18 AAT 20243 Human interleukin- 24 AAD 3024 Human interleukin- 24 AAD 3024 Human interleukin- 24 AAD 21907 Chimeric chemokine 24 AAD 21907 Chimeric chemokine 24 AAD 3023 Human interleukin- 24 AAD 3030 Chimeric chemokine 24 AAD 3030 Chimeric chemokine 25 AAT 61109 Chimeric chemokine 26 AAT 61109 Chimeric chemokine 27 AAT 61109 Chimeric chemokine 28 AAT 61109 Chimeric chemokine 29 AAT 61109 Chimeric chemokine 20 AAT 61109 Chimeric chemokine 21 AAT 61109 Chimeric chemokine 21 AAT 61109 Chimeric chemo	ALIGNMENTS 37 BP. y) igonucleotide HSMDNCFAS2. m; adenosine free; cystic fibrosis; onary disease; bronchitis; hil chemotactic factor; ss.	USO9306. .0474497. .ROLINA.
	33 33 33 33 33 33 33 33 33 33 33 33 33	25.25 27	176272; -SEP-1997 (firsman MDNCF antise roaic obstruction ocyte-derived inthetic.	2-A1. 996. 996; 96WO. 995; 95US. UNIV EAST C? WJ, Nyce JV

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The specification describes antisense oligonucleotides (AAX52869-X55271) directed against at least 2 mRNAs selected from target genes, coding and
                                                               A method for treating airway disease in a subject has been produced, which involves the topical administration of an essentially adenosine free antisense oligonucleotide (ON) to the airway epithelium of the subject. The present sequence is an antisense oligonucleotide HSMDNCFAS2 specific for the human monocyte-derived neutrophil chemotactic factor. The method can be used to treat airway diseases such as cystic fibrosis, asthma, chronic obstructive pulmonary disease, bronchitis and other airway diseases characterised by an inflammatory response. By eliminating adenosine from the antisense ON, its liberation upon antisense degradation is prevented, thereby preventing adenosine-induced bronchoconstriction in patients with hyper-reactive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       impaired respiration; inflammation; lung disease; pulmonary vascoonstriction; inflammation, allargic rhinitis; acute asthma; allargy; asthma; impeded respiration; respiration; respiratory distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary vasoconstriction; emphysema; chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma; ochon cancer; breast cancer; lung cancer; pancreatic cancer; hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New antisense oligonucleotides used in treatment of, e.g. pulmonary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antisense oligonucleotide; multiple target; antisense treatment;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Monocyte-derived neutrophil chemotactic factor antisense oligo.
                                                                                                                                                                                                                                                                                                                         Sequence 37 BP; 0 A; 11 C; 9 G; 17 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                    37 AGGACAAGACCAGGAAGAACCACCGGAAGGAACCA 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       37 AGGACAAGAGCCAGGAAGAACCACCGGAAGGAACCA 1
                                                                                                                                                                                                                                                                                                                                                          Query Match 2.3%; Score 37; DB Best Local Similarity 100.0%; Pred. No. 1.4 Matches 37; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 51; 120pp; English.
                                   Claim 5; Page 33; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98WO-US19419
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97US-0059160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAX54069/c AAX54069 standard; DNA; 37
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              05-JUL-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 prostate cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-229400/19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    vasoconstriction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9913886-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-JUN-1998;
17-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-MAR-1999,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAX54069;
subject
                                                                                                                                                                                                                                                                                       airways.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nyce JW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT
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Touritation codons, genomic flanking regions, intron-exon borders, the initiation codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-end and the juxta-section between coding and non-coding regions and all segments of RNAs encoding proteins associated with one or more diseases, conditions or mixtures. The antisense oligonucleotides corresponses anxi5272-74. These multiple target cantisense treatment of diseases and conditions. Typical diseases and conditions are those associated with impaired respiration and conditions are those associated with impaired respiration and inflammation, including lung diseases, pulmonary vasoconstriction, including lung diseases, pulmonary vasoconstriction, conditions are those associated with impaired respiration and allergic finitis, acute astima, allergies, astima, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, confinemary hypertension, pulmonary vasoconstriction, emphysema, chronic concurrence of the individual parast cancer, lung cancer, lung cancer, lung cancer, hepatic metastasize to the lungs, including breast and prostate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Low adenosine antisense oligonucleotide, phosphorothloate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antihnflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection; chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human monocyte derived neutrophil chemotactic factor DNA fragment #1202.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating cancers and respiratory obstructions -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;
0
      gene
                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 37;
  non-coding regions of RNAs corresponding to target genes,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                      1.4e+03;
hes 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 37; DB 20;
                                                                                                                                                                                                                                                                                                                                                                                        Sequence 37 BP; 0 A; 11 C; 9 G; 17 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                37 AGGACAAGAGCCAGGAAGAACCACCGGAAGGAACCA 73
                                                                                                                                                                                                                                                                                                                                                                                                                      2.3%; Score ...
100.0%; Pred. No. 1.4e+
--:ve 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       37 AGGACAAGACCAGGAAGAACCACCGGAAGGAACCA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 14; Page 210; 1592pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 3
AAF19635/c
ID AAF19635 standard; DNA; 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (UYEC-) UNIV EAST CAROLINA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-MAR-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       37; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2000-679539/66.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200062736-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       06-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAF19635;
                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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Gaps

; 0

Length 37; Indels

DB 18; L 1.4e+03; thes 0;

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oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analgesic, immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. The antisense oligonucleotides and (I) can be used to down-regulate the expression and or activity of target polypeptides associated with uniformation and or activity of target polypeptides associated with a citivating peptide factors and malignancies, such as stimulating and activating peptide factors and malignancies, transcription factors, immunoglobulins and antibodies, antibody receptors, cytokines and chemokines, endogenously produced specific and non-specific enzymes, binding proteins, adhesion molecules and their receptors, cytokine and nervous system (CNS) and peripheral nervous and non-nervous system creeptors, of Sm and peripheral nervous and non-nervous system peptide transmitters, defensine, growth factors, vasoactive peptides and receptors, binding proteins and malignancy associated proteins. The creeptors, binding proteins and be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction and/or bronchoconstriction) and/or lung inflammation, allergy(ies) and/or surfactoral hypoproduction which are associated with a disease or condition selected from pulmonary vasoconstriction, inflammation, allergic (RBS), pain, cystic fibrosis (CF), allergic reliation, pulmonary construction enhorcement continues and c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        pulmonary transplantation rejection, pulmonary infections, bronchitis, and/or cancer. AAF18434 to AAF21543 represent human polynucleotide fragments and antisense oligonucleotides used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hypertension, emphysema, chronic obstructive pulmonary disease (COPD),
                                         present invention describes low adenosine (A) content antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pulmonary transplantation rejection, pulmonary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 37 BP; 0 A; 11 C; 9 G; 17 T; 0 other;
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; ; Length 37; 0; Indels Score 37; DB 21; Pred. No. 1.4e+03; 37 AGGACAAGAGCCAGGAAGAAACCACCGGAAGGAACCA 73 0; Mismatches 2.3%; { 100.0%; 37; Conservative Similarity Query Match Best Local S Matches Dp ð

; 0

Gaps

AAA33513 standard; DNA; 37 AAA33513; AAA33513/C

(first entry) 28-JUL-2000

Low adenosine antisense oligonucleotide SEQ ID NO:1202.

Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothioate; impaired respiration; inflammation; allergy; allergy; disease; bronchoconstriction; inhibitor; antiinflammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma; respiratory distress syndrome; pain; cystic fibrosis; emphysems; pulmonary hypertension; chronic obstructive pulmonary disease; COPD; cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.

Homo sapiens

WO200009525-A2

24-FEB-2000

99WO-US17712 03-AUG-1999;

98US-0095212. 03-AUG-1998;

(UYEC-) UNIV EAST CAROLINA

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antisense oligonuclectide (ON) with low adenosine (up to 15%), which targets nucleic acids involved in bronchoconstraction, allergies, and/or inflammation. The ON can have antinflammatory, antiallergie, and/or antiasthmatic, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, impaired alrways, including lung diseases and diseases whose secondary effects affilict the lungs of a subject. They can be used for treating estimation conditions, pulmonary vasoconstriction, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukaemias, lymphomas, carcinomas, and cancers which may metastasise to the lungs, including breast and prostate cancer. The reduction of the adenosine content of the ONs reduces side effects. The A-containing ONs break down with the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         release of deoxyadenosine which activates adenosine receptors causing bronchoconstriction and inflammation. AAA32313 to AAA33212 represent the nucleotide sequences given in the sequence listing from the present invention, which correspond to SEQ ID NO:1 to 2815, and then the last differ energy are also called SEQ ID NO:1 to 185, but the sequences differ from the previously named sequences. SEQ ID NO:11 to 1680 (AAA32323 to AAA33922) are specifically claimed ONs from the present invention N.B. Sequences given in the disclosure of the present invention do not match up with their corresponding SEQ ID NO: sequences given in the sequence listing.
                                                                                                          New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
                                                                                                                                                                                                                                                                                                               The present invention describes a new composition comprising an
                                                                                                                                                                                                                                                      Claim 18; Page 415; 1343pp; English.
                                                        WPI; 2000-205971/18.
                                                                                                                                                                                                    cancers
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Length 37; Indels ô Pred. No. 1.4e+03; 2.3%; Score 37; DB 21; 37 AGGACAAGAGCCAGGAAGAAACCACCGGAAGGAACCA 73 100.0%; Pred. ... Conservative Best Local Similarity Matches 37; Conserv Query Match ŏ

Sequence 37 BP; 0 A; 11 C; 9 G; 17 T; 0 other;

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Gaps

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AAT76366 RESULT

g

AAT76366 standard; DNA; 34 BP

AAT76366;

15-SEP-1997 (first entry)

Human interleukin 8 antisense oligonucleotide HUMIL8AAS3.

Asthma; airway epithelium; adenosine free; cystic fibrosis; chronic obstructive pulmonary disease; bronchitis; ss.

Synthetic.

WO9640162-A1

19-DEC-1996.

06-JUN-1996;

95US-0474497. 07-JUN-1995;

(UYEC-) UNIV EAST CAROLINA.

genes, coding and

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inflammation, including lung diseases, pulmonary vasoconstriction, inflammation, allergic rhinitis, acute asthma, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary pulmonary vasoconstriction, emphysema, chronic obstructive pulmonary vasoconstriction, emphysema, chronic lymphonas, carcinomas eg. colon cancer, breast cancer, lung cancer, pancreatic cancer, hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, as well as all types of cancer which may metastasize or have metastasized to the lungs, including breast and prostate cancer.
                                                                                                                        non-coding regions of RNAs corresponding to target genes, gene
initiation codons, genomic flanking regions, intron-exon borders, the
5'-end, the 3'-end and the juxta-section between coding and non-coding
regions and all segments of RNAs encoding proteins associated with one
or more diseases, conditions or mixtures. The antisense oligonucleotides
may be derived from sequences AAX5572-74. These multiple target
oligonucleotides (specifically AAX55180-271) can be used for the
antisense treatment of diseases and conditions. Typical diseases and
conditions are those associated with impaired respiration and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Low adenosine antisense oligonucleotide; phosphorothioate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antinflammatory; immunosuppressive; antiasthmatic; analgasic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection; chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                           The specification describes antisense oligonucleotides (AAX$2869-X$5271) directed against at least 2 mRNAs selected from target genes, coding and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human interleukin-8 polynucleotide fragment #1300.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 34 BP; 0 A; 11 C; 7 G; 16 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Preu. ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              37 AGGACAAGAGCCAGGAAGAAACCACCGGAAGGAA 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             34 AGGACAAGAGCCAGGAAGAACCACCGGAAGGAA 1
                            Disclosure; Page 55; 120pp; English.
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AAF19733/C
ID AAF19733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAF19733;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Antisense oligonucleotide; multiple target; antisense treatment; impaired respiration; inflammation; lung disease; pulmonary vasconstriction; inflammation; allergic rhinitis; acute asthma; allergy; asthma; impeded respiration; respiration; pulmonary distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary vasconstriction; emphysema; chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma; colon cancer; breast cancer; lung cancer; pancreatic cancer; hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;
                                                                                                                                                                                                                                                                       which involves the topical administration of an essentially adenosine subject. The present sequence is an antisense oligonucleotide (ON) to the airway epithelium of the subject. The present sequence is an antisense oligonucleotide HUMILGAAS3 specific for the human interleukin 8. The method can be used to treat airway diseases such as cystic fibrosis, asthma, chronic obstructive pulmonary disease, bronchitis and other airway diseases characterised by an inflammatory response. By eliminating adenosine from the antisense ON, its liberation upon antisense degradation is prevented, thereby preventing adenosine induced bronchoconstriction in patients with hyper-reactive airways.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                              Treatment of airway diseases such as asthma - by topically applying adenosine-free antisense oligo:nucleotide to airway epithelium of
                                                                                                                                                                                                                                                A method for treating airway disease in a subject has been produced
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New antisense oligonucleotides used in treatment of, e.g. pulmonary vasoconstriction
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. 4.5e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 34; DB 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 34 BP; 0 A; 11 C; 7 G; 16 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human IL-8 antisense oligonucleotide fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          37 AGGACAAGAGCCAGGAAGAACCACCGGAAGGAA 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    34 AGGACAAGAGCCAGGAAGAACCACCGGAAGGAA 1
                                                                                                                                                                                                 Claim 5; Page 36; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2.1%; S
100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    standard; DNA; 34 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98US-0093972
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        34; Conservative
Nyce JW;
                                               WPI; 1997-051871/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-229400/19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                prostate cancer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (UYEC-) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-JUL-1999
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Metzger WJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19-JUN-1998;
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Matches

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RESULT 6 AAX54167/

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Caps

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Length 34; Indels us-09-960-143-3.rng

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expression and or activity of target polypeptides associated with lung/respiratory disorders and malignancies, such as stimulating and activating peptide factors and transmitters, transcription factors, immunoglobulins and antibodies, antibody receptors, cytokines and chemokines, endogenously produced specific and non-specific enzymes, binding proteins, adhesion molecules and their receptors, cytokine and chemokine receptors, adenosine receptors, bradykinin receptors, central nervous system (CNS) and peripheral nervous and non-nervous system receptors, CNS and peripheral nervous and non-nervous system receptors, printing proteins and malignancy associated proteins. The antisense oligonucleotides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction and/or broncheconstriction) and/or lighammation, allergy(ies)
                                                                                                                                                                 The present invention describes low adenosine (A) content antisense oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analgesic, immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. The antisense oligonucleotides and (I) can be used to down-regulate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         condition selected from pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), pulmonary transplantation rejection, pulmonary infections, bronchitis, and/or cancer. AAF18434 to AAF21543 represent human polynucleotide fragments and antisense oligonucleotides used in the exemplification of
Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       surfactant hypoproduction which are associated with a disease or
                                                         cancers and respiratory obstructions
                                                                                                             Claim 14; Page 236; 1592pp; English.
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0
                         Length 34;
                                                 0; Indels
                        Score 34; DB 21; I
Pred. No. 4.5e+03;
Sequence 34 BP; 0 A; 11 C; 7 G; 16 T; 0 other;
               2.1%; Scor. 100.0%; Pred. No. 0; Mismatches
                                                                       37 AGGACAAGACCAGGAAGAAACCACCGGAAGGAA 70
                                                 34; Conservative
                                     Similarity
                        Query Match
                                     Local
                                                 Matches
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34 ASGACAAGAGCCAGGAAGAACCACCGGAAGGAA 1 q

AAA33611 standard; DNA; 34 BP

RESULT

AAA33611;

28-JUL-2000 (first entry)

Low adenosine antisense oligonucleotide SEQ ID NO:1300.

antiallergic; antiasthmatic; cytostatic; antiagesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma; respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD; cancer; leukaemia; lymphoma; carcinoma; metastasis; ss. phosphorothioate; impaired respiration; inflammation; allergy; allergic disease; bronchoconstriction; inhibitor; antiinflammatory; Human; adenosine receptor; low adenosine antisense oligonucleotide;

Homo sapiens

WO200009525-A2.

24-FEB-2000

99WO-US17712. 03-AUG-1999;

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targets nucleic acids involved in bronchoconstriction, allergies, and/or targets nucleic acids involved in bronchoconstriction, allergies, and/or inflammation. The ON can have antiinflammatory, antiallergie, and/or inflammation. The ON can have antiinflammatory, antiallergic, continsthmatic, treatment of diseases associated with inflammation, impaired airways, including lung disease and diseases whose secondary effects afflict the lungs of a subject. They can be used for treating e.g. ischaemic conditions, pulmonary vasoconstriction, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukaemias, lymphomas, carcinomas, and cancers which may metastasise to the lungs, including breast and prostate cancer. The reduction of the adenosine content of the ONs reduces side effects. The A-containing ONs break down with the release of deoxyadenosine which activates adenosine receptors causing bronchoconstriction and inflammation. AAA33313 to AAA35312 represent the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nucleotide sequences given in the sequence listing from the present invention, which correspond to SEQ ID NO:1 to 2815, and then the last 185 sequences are also called SEQ ID NO:1 to 185, but the sequences differ from the previously named sequences. SEQ ID NO:11 to 1680 (AAA3233 to AAA3392) are specifically claimed ONS from the present invention. N.B. Sequences given in the disclosure of the present invention do not match up with their corresponding SEQ ID NO: sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                     New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
                                                                                                                                                                                                                                                                                                                                                                    present invention describes a new composition comprising an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2.1%; Score 34; DB 21; I
100.0%; Pred. No. 4.5e+03;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 34 BP; 0 A; 11 C; 7 G; 16 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   37 AGGACAAGAGCCAGGAAGAACCACCGGAAGGAA 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              34 AGGACAAGACCAGGAAGAAACCACCGGAAGGAA 1
                                                                                                                                                                                                                                                                                                                    Claim 18; Page 427; 1343pp; English.
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100.08; Pre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 given in the sequence listing.
                   98US-0095212.
                                                                (UYEC-) UNIV EAST CAROLINA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                          WPI; 2000-205971/18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
                   03-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      34;
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                                                                                                              Nyce JW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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AAQ37164/c

AAG37164 standard; DNA; 33 BP

Interleukin-8; polymerase chain reaction; PCR; cytokine synthesis inhibitor; inflammation; monokine production; Southern analysis; ss.

Anti-sense primer to amplify IL-8.

(first entry)

23-JUN-1993

AAQ37164;

WO9302693-A. Synthetic.

18-FEB-1993,

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RNA was extracted from genital lesions, reverse transcribed to produce CDNA and then the CDNA was used as the template for PCR amplification of various cytokines using the primers in AAT38964-AAT39005. To confirm the identity of amplified CDNA, digoxiganin-labelled probes specific for each cytokine (see AAT39006-T39021) were hybridised with Southern blots of amplified sequences. The expression profile for regressing and non-regressing warts was established and compared to cytokine expression patterns in normal cervical tissue. Results showed that interleukin 12 is barely cytokine expression. It has been found that IL-12 can be used (especially cas a vaccine adjuvant) for treating papilloma virus-associated as a vaccine adjuvant) for treating papilloma virus-associated lesions such as condyloma acuminata (anogenital warts) caused by human papilloma virus type 6 (HPV-6) and/OAT HPV-11 and more
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 particularly for treating bacterial infections, e.g. septic or toxic shock
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tumour necrosis factor alpha; TNF; IL-1 alpha; IL-1 beta; bacteria; septic; toxic shock; superantigen; T-cell dependent response; human; viral; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Interleukin; IL-10; IL-6; IL-8; inflammatory response; endotoxin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Reducing inflammatory response by treatment with interleukin-10
                                                                                                                                                                                                                                                                                                                                                                                                infection e.g. anogenital, cutaneous, laryngeal and oesophageal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 33; DB 17; 1 Pred. No. 6.5e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 33 BP; 9 A; 10 C; 2 G; 12 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Match 2.0%; Score 33; DD Local Similarity 100.0%; Pred. No. 6.5 Local Similarity 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             358 GAGAAGTTTTTGAAGAGGGCTGAGAATTCATAA 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     33 GAGAAGTTTTTGAAGAGGCCTGAGAATTCATAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Howard M, Hsu D,
                       Disclosure; Page 14; 32pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Interleukin-8 antisense primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      95US-0481560.
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95US-0481560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5360/c Standard; DNA; 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22-JAN-1999 (first entry)
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its H, Zlotnik A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1999-023391/02.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US5837293-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-JUN-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   06-AUG-1992;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
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Spits
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                                                                                                                                                                                                                                                                                                                                                                  cytokines by monocytes, comparative PCR analyses were performed on RNA isolated from monocytes, activated by LPS in the presence or absence of IL-10, IL-4 or the neutralising anti-IL-10 MAD for 24 hours. mRNA isolated from the samples was reverse transcribed into CDNA and amplified by cytokine-specific primers. Primer AAQ37164 is specific to IL-8 (see AAQ37163 for sense primer). It was found that IL-1 alpha, IL-6, TNF alpha, GM-CSF and G-CSF expression was strongly inhibited by IL-10 and IL-4 at the mRNA level. IL-1 beta and IL-8 expression was only slightly affected by IL-10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cytokine; expression profile; genital wart; interleukin 12; IL-12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Use of interleukin-12 to treat papilloma virus-associated lesions esp. as a vaccine adjuvant with papilloma virus antigen for immuno:therapy of warts or tumours
                                                                                                                                                                                                                        Use of interleukin-10 to modulate inflammation or T-cell mediated immune function - for treating septic and toxic shock, auto-immune diseases, tumours and infections diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tumour regression; adjuvant; polymerase chain reaction; PCR; condyloma acuminata; human papilloma virus; HPV-6; HPV-11; HPV16; HPV18; anogenital; cutaneous; laryngeal; oesophageal; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                   To determine at which level IL-10 inhibited the production of
                                                                                                                           OGarra A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Indels
                                                                                                                        Ishida H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 33; DB 14; I
Pred. No. 6.5e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 33 BP; 9 A; 10 C; 2 G; 12 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                358 GAGAAGTTTTGAAGAGGGCTGAGAATTCATAA 390
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                                                                                                                           HSn DH,
                                                                                                                                                                                                                                                                                                         Example B6; Page 87; 208pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2.0%;
100.0%; Pred
0; F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Interleukin IL-8 3' PCR primer.
                                                                                                                           Howard M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAR38979 standard; DNA; 33 BP
  92WO-US06378
                                        91US-0742129
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 2.0
Best Local Similarity 100.
Matches 33; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Stanley MA;
                                                                                (SCHE ) SCHERING CORP
                                                                                                                      De Waal Malefyt R, B
Spits H, Zlotnik A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1996-442947/44.
                                                                                                                                                                                  WPI; 1993-076172/09.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO9629091-A1.
06-AUG-1992;
                                        06-AUG-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Scarpini CG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-MAR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-SEP-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
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RESULT 10 AAT38979/c

ò g O'Garra A;

Ishida H,

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Gaps

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Length 33; 0; Indels

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modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          06-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO9639536-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Emmett C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAT45913;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAT45913/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 13
                 8888888888888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             qq
                                                                                                  Sequences AAV65353 to AAV65370 represent PCR primers used during the course of the invention. The invention provides a method for reducing inflammatory response characterised by elevated levels of interleukin (ILD-1 alpha, IL-1 beta, IL-6 or IL-8, or of fundru necrosis factor (IMF) alpha which comprises administering IL-10 The IL-10 to be administered is a recombinant mature protein selected from the sequences of human IL-10 (AAW81421, AAW81423) or viral IL-10 (AAW81422, AAW81423). IL-10 is especially administered to humans at risk of developing an inflammatory response, particularly where this is caused by infection by gram-positive or negative bacteria that produce endotoxins. Specific applications are in cases of septic or toxic shock and where infection lessures in a T-cell dependent response. Treatment with IL-10 reduces levels of the proinflammatory cytokines (by reducing their synthesis in monocytes, macrophages and natural killer cells), and inhibits activation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This sequence represents a primer for a interleukin-10 (IL-10) coding sequence. The IL-10 protein can be used in the method of the invention for ameliorating a symptom of: (a) septic shock in a host suffering from a bacterial (preferably gram negative) infection; (b) toxic shock;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Interleukin-10; IL-10; septic shock; bacterial infection; toxic shock;
infectious shock; inflammation; immune response modulation; therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Treating shock conditions from e.g. bacterial infections - comprises administering interleukin-10\,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .
0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 33;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2.0%; Score 33; DB 20; I
100.0%; Pred. No. 6.5e+03;
Live 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ishida H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Primer IL-8 for Interleukin-10 coding sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 33 BP; 9 A; 10 C; 2 G; 12 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         358 GAGAAGTTTTTGAAGAGGGCTGAGAATTCATAA 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          133 GAGAAGTTTTTGAAGAGGCTGAGAATTCATAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 14; Column 43; 109pp; English.
                               Example 14; Column 42; 108pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hsu D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Howard M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cells by superantigens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                91US-0742129.
94US-0229854.
95US-0410654.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity 100.
nes 33; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Zlotnik A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1999-008644/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Waal Malefyt R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCR primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   24-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-JAN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-AUG-1992;
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24-MAR-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAV08015;
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Matches
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\overset{\mathsf{x}}{\circ} \overset{\mathsf{y}}{\circ} \overset{\mathsf
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(c) infectious shock; or (d) inflammation. The method comprises administering a biologically active IL-10 (preferably human) protein, analogue or a fragment (preferably full length). The treatment is used to modulate immune responses caused by the different shock syndromes, which are endotoxin or superantigen induced toxicity, or autoimmune related conditions. The conditions are side-effects of microbial infections, retartment, which when cells are killed, they lyse, releasing protein products, especially on anti-microbial treatment, which when cells are killed, they lyse, releasing proteins which induce the shock conditions. IL-10 inhibits TNF-alpha (tumour necrosis factor-alpha) and TNF-gamma synthesis, which as part of an immune response elicits the shock syndromes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A new method for the quantification of mRNA expression levels can be used for detecting the cytokine interleukin-8. In the method, total RNA is extracted from a sample, preferably using a detergent chaotrope lysis mixture, and cDNA is synthesised from mRNA. This cDNA is added to nucleotides, Taq polymerase, a magnesium source, a 3'-primer and a 5'-primer labelled with a molecule capable of binding to a coated microtitre plate and a PCR reaction is performed. A probe, capable of hybridising to the PCR product and labelled with a detectable marker or containing a molecule capable of binding to
                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Interleukin 8; IL-8; polymerase chain reaction; PCR primer; detection; diagnosis; cytokine; renal transplant rejection; immunoassay; detergent chaotrope; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Quantification of mRNA expression levels - using universal linked immunosorbent assay, for rapid diagnosis of disease
                                                                                                                                                                                                                                                                                            Length 33;
                                                                                                                                                                                                                                                                                                                                    0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human interleukin-8 PCR product hybridisation probe.
                                                                                                                                                                                                                                                                                                                  5e+03;
                                                                                                                                                                                                                                                                                            Score 33; DB 20;
Pred. No. 6.5e+03
                                                                                                                                                                                                                                                   Sequence 33 BP; 9 A; 10 C; 2 G; 12 T; 0 other;
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/note= "labelled with FITC"
                                                                                                                                                                                                                                                                                                       100.0%; Prea. ....
                                                                                                                                                                                                                                                                                                                                                                           358 GAGAAGITITIGAAGAGGCTGAGAATICATAA 390
                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 5; Page 10; 19pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (TCEL-) T CELL DIAGNOSTICS INC
                                                                                                                                                                                                                                                                                            2.08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                96WO-US08142.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAT45913 standard; DNA; 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                              Best_Local Similarity 100.
Matches 33; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /*tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   transplant rejection
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nucleic acid molecules from the human genome which include polymorphic sites, useful in methods for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes)
                                        plate
an agent coated on a microtitre plate is added to the PCR product. A mixture of hybridised probe and PCR product, unhybridised probe and PCR products and excess primers are transferred to a microtitre plate coated with an agent capable of binding to a molecule on the PCR product, or the molecule on the probe. The detectable marker is detected on a bound hybridised probe and PCR product, preferably via the detection of an antibody that detects the labelled primer or probe, so that mRRN levels can be detecrmined. Primer and probe sequences which can be used for the detection of interleukin-8
                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; resequence; genotype; disease; forensic; paternity testing; single nucleotide polymorphism; SNP; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /*tag= a
/standard_name= "single nucleotide polymorphism"
                                                                                                                                                                                                                                                                      ;;
                                                                                                                                                                                                                                   Length 31;
                                                                                                                                                                                                                                                                  0; Indels
                                                                                                                                                                                                                                Score 31; DB 18; I
Pred. No. 1.4e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human single nucleotide polymorphism (SNP) IL8.
                                                                                                                                                                                                 Seguence 31 BP; 11 A; 8 C; 9 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                     119 TGGCAGCCTTCCTGATTTCTGCAGCTCTGTG 149
                                                                                                                                                                                                                                                                                                                       31 TGGCAGCCTTCCTGATTTCTGCAGCTCTGTG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (WHED ) WHITEHEAD INST BIOMEDICAL RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 associated with a particular genotype
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers replace(16,C)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lander ES;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 1; Page 113; 145pp; English.
                                                                                                                                                                                                                                1.9%; $
                                                                                                                                                                                                                                                                                                                                                                                                                             AAI30870 standard; DNA; 31 BP
                                                                                                                                                                include the present sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-MAR-2001; 2001WO-US07268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000US-0187510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000US-0206129.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                       Ouery Match
Best Local Similarity 100.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cargill M, Ireland JS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-522952/57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200166800-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Variation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAI30870;
                                                                                                                                                                                                                                                                                                                                                                                              RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                             AAI30870
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ANT45754-T45762 are probes used to determine whether or not the cytokines IL-1, IL-6, IL-8, GM-CSF, G-CSF, M-CSF, TGF-alpha and castem cell factor are expressed by a human bone marrow stromal cell line, Lof(11-10). The cells were found to produce the cytokines which support the growth of CD34+ stem cells. The Lof(11-10) cells were injected into SCID mice (previously irradiated to provide an internal space for CD34+ cells to populate). Five to seven days after injection the mice were injected with 3 to 5 human CD34+ cells. After 3 weeks, human CD34+ cells were found in the bone marrow of contemplate of the mice. The immortalised bone marrow stem cells create a human microenvironment supplying human cytokines in the animals to provide for the engraftment, maintenance and differentiation of CD34+ stem cells. Animal models created by administering Lof(11-10) cells are used to study and determine the effectiveness of therapies against disease such as HIV infection. They can also be used to assay for hemaltopoletic growth factors, immunomodulators and/or immune
                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Polymerase chain reaction; PCR; interleukin; IL; cytokine; growth factor; animal model; stem cell; heematopolesis; 0534; infection; HIV; human immodeficiency virus; immunomodulator; immortalise; bone marrow; stromal cell; engraftment; determination;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Animal models for human haematopoiesis - have en-grafted human or primate stem cells in the presence of immortalised bone marrow stromal cells
                                                                                                                    .;
0
                                                        Length 31;
                                                                                                                    0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          La Russa V;
                                                        Score 31; DB 22; 1
Pred. No. 1.4e+04;
Sequence 31 BP; 12 A; 8 C; 4 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kaushal S, Kessler S,
                                                                           100.0%; Preu. ...
                                                                                                                                                                                220 TICCACCCCAAATITATCAAAGAACTGAGAG 250
                                                                                                                                                                                                                  1 TTCCACCCCAAATTTATCAAAGAACTGAGAG 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 1; Page 15; 43pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human interleukin-8 gene probe.
                                                           1.98;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         95WO-US15986.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     94US-0352957.
                                                                                                                                                                                                                                                                                                                                                                                               AAT45757 standard; DNA; 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17-FEB-1997 (first entry)
                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1996-286928/29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      study, research; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gartner S, Hall E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KAUSHAL S.
KESSLER S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (LRUS/) LA RUSSA V
(MOSC/) MOSCA J D.
                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GARTNER S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HALL E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO9617627-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     09-DEC-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            08-DEC-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13-JUN-1996.
                                                                                                                       31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mosca JD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAT45757;
                                                        Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (HALL/)
(KAUS/)
(KESS/)
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x g

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cell;

97WO-JP04127

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The present sequence represents a PCR primer used in an example from the present invention. The present invention describes a protein which has transcription repressor activity and consists of a transcription requiator protein from which a part (not involved in DNA binding) has been deleted, or derived from such a protein by addition, deletion or substitution of one or more amino acid residues. In particular, the protein is one which inhibits the transcription of the interleukin-8 (IL-8) gene. The protein is used for the treatment and prevention of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (IL-8) gene. The protein is used for the treatment and prevention of disorders such as inflammatory diseases mediated by interleukin-8, e.g. rheumatoid arthritis, asthma, ringworm, skin inflammation, septic shock
                                                                            Human interleukin 18 promoter PCR primer #2 from W09822581 Example 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Transcription repressor protein for treatment of inflammatory diseases - consists of transcription regulating protein having part deleted which is not involved in DNA binding
                                                                                                                   Transcription repressor protein; inflammatory disease; regulator; interleukin 8; IL-8; rheumatoid arthritis; asthma; ringworm; skin inflammation; septic shock; gene therapy; MRC-5 SVI TGI cell,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The DNA encoding the protein may be used in gene therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 1; Page 12; 62pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 (CYTO-) INST CYTOSIGNAL RES INC
                                      24-SEP-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nagasawa Y, Yoshida
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1998-312467/27.
                                                                                                                                                                                     PCR primer; ss
                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                  12-NOV-1997;
                                                                                                                                                                                                                                                                                   WO9822581-A1
                                                                                                                                                                                                                                                                                                                            28-MAY-1998.
                                                                                                                                                                                                                         Synthetic
  AAV35562;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 18
AAV35781/C
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This sequence represents a PCR primer for DNA encoding the human glucocorticoid inducible suppressor protein (GISP) of the invention. The glucocorticoid inducible suppressor protein (GISP) of the invention. The activation of interleukin-8 (IL-8) promoter activity in response to a specific extracellular stimulus (especially by interleukin-1 beta). The invention can be used in the treatment and prevention of disorders in which IL-8 expression is involved, such as inflammatory diseases,
                                                                                                                                                                                                                                                                                                                                                                                                                                Glucocorticoid inducible suppressor protein; interleukin-8; rheumatism; intracellular signal transmission inhibitor; IL-8 promoter; allergy; inflammatory disease; bronchial asthma; therapy; PCR primer; ss.
                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Protein inhibiting activation of interleukin-8 promoter in response to extracellular stimulus - for use in diseases involving interleukin-8 expression, such as inflammatory disorders and asthma
                                                                                                ;
0
                                                   Length 30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 30;
                                                                                         Indels
                                                 DB 17; L
2.1e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 30; DB 19;
    Sequence 30 BP; 10 A; 5 C; 10 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 30 BP; 3 A; 7 C; 8 G; 12 T; 0 other;
                                            1.8%; Score 30; DB
100.0%; Pred. No. 2.1
Live 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                          PCR primer for human GISP coding sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   bronchial asthma, allergy and rheumatism.
                                                                                                                         241 GAACTGAGAGTGATTGAGAGTGGACCACAC 270
                                                                                                                                                   Example 5; Page 56; 72pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (CYTO-) INST CYTOSIGNAL RES INC
                                                                                                                                                                                                                                                                           BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1.8%; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98WO-JP00836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97JP-0062008
                                                                                                                                                                                                                                                                        Standard; DNA; 30
                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 100.
Matches 30, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Yoshida H;
                                        Query Match
Best Local Similarity
Matches 30; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1998-481142/41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9838213-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            27-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                     15-JAN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ohtsuka T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-SEP-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                             AAV61828;
                                                                                                                                                                                                                                                                      AAV61828
                                                                                                                                                                                                                              RESULT 16
AAV61828/C
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ö
                                                                                                                                                                                                                                                                 Induce, apoptosis, guanine phosphoribosyltransferase; gpt, luciferase; cytokine; tumour necrosis factor; interleukin-1; inhibitory effect; intracellular signal transmission; PCR primer; ss.
                                                       Gaps
                                                      0;
                             Length 30;
                                                     Indels
                           DB 19; L. 2.1e+04;
                                                     ö
Sequence 30 BP; 3 A; 7 C; 8 G; 12 T; 0 other;
                                                     Mismatches
                           Score 30;
Pred. No.
                                                                          14 GACAGCAGACACACAAGCTTCTAGGACAA 43
                                                                                       30 GACAGCAGAGCACAAGCTTCTAGGACAA 1
                                                                                                                                                                                                                                          PCR primer IL8P2 of the invention.
                       1.5°,
100.08; Pr.
0;
                                                                                                                                                           AAV35781 standard; DNA; 30
                                                                                                                                                                                                                  22-SEP-1998 (first entry)
                                                   Conservative
                                   Best Local Similarity
Matches 30; Conserv
                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                         AAV35781;
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ö

Gaps

; 0

Indels

.; 0 2.1e+04;

0; Mismatches

Pred

ð a BP.

standard; DNA; 30

HAV35562

28-MAY-1998

inhibition

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The present invention describes a method for identifying oligonucleotides
                                                                                                                                                                     specific inhibitors of pathways activated by interleukin (IL)-1 beta, tumour necrosis factor (TNF) alpha or a leustrodaxin derivative, by culturing a cell transformed by a marker gene controlled by a promoter gene containing a NF-kappa-B binding site in the presence of ILD transformed by a marker gene containing a NF-kappa-B binding site in the presence of a method for the degree of marker gene expression. Also described is a method for activating a promoter gene containing a NF-kappa-B binding site and inhibitors identified by the above method. The method can be used for the identification of inhibitors of the NF-kappa-B activation pathway which can be used for the treatment of inflammation and arterisosclerosis.
                                                                                                                                                                                                                                                                                                                                                                                   The present sequence represents a PCR primer for the 5'-regulatory sequence of the human IL-8 gene, which is used in an example from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nucleic acid accessible hybridisation site; detection; hybridisation; characterisation; identification; nucleic acid structure; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Identifying oligonucleotides hybridizing to nucleic acids containing secondary structure, useful in clinical diagnosis, comprises identifying primers that interact with the target to form an extensit product under amplification conditions
                                                                                                                                                   present invention describes a method for screening for potential
                                        Screening for potential inhibitors of the NF-kappa-B activation pathway, useful for treatment of inflammation and arteriosclerosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human interleukin-1 beta oligonucleotide SEQ ID NO:305.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Vener IT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 22; L
2.1e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 30 BP; 3 A; 7 C; 8 G; 12 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Neri BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1.8%; Score 30; DB 100.0%; Pred. No. 2.1 ative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14 GACAGCAGACACACAGCTTCTAGGACAA 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (THIR-) THIRD WAVE TECHNOLOGIES INC.
                                                                                                            Example 1; Page 15; 49pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Dong F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-JUN-2001; 2001WO-US19401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-JUN-2000; 2000US-212308P-
15-JUN-2001; 2001US-0212308.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABL46338 standard; DNA; 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-APR-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 81A; 409pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Lyamichev V, Allawi H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primer; probe; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-049698/06.
WPI; 2001-112080/12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                          present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200198537-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 48; Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABL46338;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      qq
      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                         per primers AAV35780-81 are used in the course of the invention. The specification describes plasmid vectors which comprise a gene which can induce apoptosis under specific conditions, e.g. guanine phosphoribosyltransferase (gpt)), or a reporter gene, e.g. luciferase, where the gene is situated downstream of a promoter which responds to specific extracellular stimulation such as the presence of a cytokine, e.g. tumour necrosis factor (TNF) or interleukin-1. The vector may be used to transform a suitable cell line, such as a cell line which does not produce hypoxanthine-guanine phosphoribosyl transferase (HGPRT). The transformed cells are used to test the inhibitory effect of a gene or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; interleukin 8; IL-8; regulation; point mutation; NF-kappa B;
AP-1 binding site; interleukin 1 beta; tumour necrosis factor alpha;
promoter; antiinflammatory; antiarteriosclerotic; screening; inhibitor;
identification; inflammation; arteriosclerosis; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human interleukin 8 5'-regulatory sequence PCR primer SEQ ID NO:3.
                                                                                                                                                                                                                                                                                                           system for detecting intra-cellular signal transmission bition - using vector containing apoptosis-inhibiting or rter gene and promoter sequence, used for, e.g. screening for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1.8%; Score 30; DB 19; I
100.0%; Pred. No. 2.1e+04;
Live 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   substance on intracellular signal transmission.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 30 BP; 3 A; 7 C; 8 G; 12 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14 GACAGCAGAGCACACAAGCTTCTAGGACAA 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Serizawa N;
                                                                                                                                                                                                                                                                                                                                                        reporter gene and promoter sequence potential anti-inflammatory agents
                                                                                                                                                                                                                                                                                                                                                                                                                     Example 1; Page 20; 62pp; Japanese
                                                                                                                                                                              (CYTO-) INST CYTOSIGNAL RES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24-MAY-2000; 2000WO-JP03326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99JP-0143032
                                                                                               97WO-JP04126
                                                                                                                                       96JP-0305163
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                                                                                                                                                                                                                           Yoshida H;
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with desired hybridisation properties to nucleic acid targets containing secondary structure. The method comprises amplifying a target nucleic acid having at least one accessible and one inaccessible site. Primers that form an extension product are identified as the oligonucleotides which can interact with the folded target nucleic acid. Oligonucleotides from the present invention can be used in novel detection methods for clinical diagnostic purposes, including the detection methods for clinical diagnostic purposes, including the detection and identification of pathogenic organisms (e.g. HIV). The method allows the ability to rapidly analyse nucleic acid structures. ABL46034 to ABL46367 represent sequences used in the exemplification of the present invention.
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Sequence 30 BP; 13 A; 4 C; 2 G; 11 T; 0 other;

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SUMMARIES

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AR021184 47 bp Sequence 42 from patent US 5789539. AR021184 1 GI:3975799 Unknown. Unclassified. Unknown. RESULT 1
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SOURCE
ORGANISM

PAT 05-DEC-1998

linear

DNA

ALIGNMENTS

1 (bases 1 to 47)
Daly, T.J. and LaRosa,G.J.
Chemokine-like proteins and methods of use
Patent: US 5789519-4 42 04-AUG-1998;
Location/Qualifiers REFERENCE AUTHORS TITLE JOURNAL FEATURES

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                                                    Length 47;
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Daly,T.J. and LaRosa,G.J.
Chemokine-like proteins and methods (Patent: US 5789539-A 40 04-AuG-1998;
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Sequence 40 from patent US 5789539.
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AR021182.1 GI:3975797
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Daly, T.J. and LaRosa, G.J.
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l (bases 1 to 33)
Standlay, M.A. and Scarpini, C.G.
Standlay, M.A. and Scarpini, C.G.
Patent: WO 9629091-A 16 26-SEP-1996;
UNIV CAMBRIDGE TECH (GB)
Other publication AU 5151596 961008. ö ö PAT 03-MAR-1998 PAT 29-SEP-1999 PAT 07-0CT-1997 Howard, M., Hsu, D.-H., Ishida, H., O'Garra, A., Gaps .. 0 Query Match 2.0%; Score 33; DB 6; Length 33; Best Local Similarity 100.0%; Pred. No. 1.4e+05; Matches 33; Conservative 0; Mismatches 0; Indels linear Length 37; linear Unclassified.

1 (bases 1 to 37)
Daly,T.J. and LaRosa,G.J.
Chemokine-like proteins and methods of use
Patent: US 5656724-A 40 12-AUG-1997;
Location/Qualifiers 2.3%; Score 37; DB 6; Le 100.0%; Pred. No. 3.4e+04; tive 0; Mismatches 0; DNA 351 GGTTGTGGAGAGTTTTTGAAGAGGGCTGAGAATTCA 387 DNA 12 t 33 bp 1 Sequence 42 from patent US 5833976. AR052918 GI:5977780 37 bp 1 Sequence 40 from patent US 5656724. 160563 160563.1 GI:2479008 358 GAGAAGTTTTTGAAGAGGCCTGAGAATTCATAA 390 10 Sequence 16 from Patent W09629091. A56958 A56958.1 GI:3712941 /organism-"unidentified" /db_xref-"taxon:32644" 10 c 2 g 17 /organism="unknown" 14 c 2 g 1 (bases 1 to 33) Malefyt, Rde. Waal., Howa Spits, H. and Zlotnik, A. Query Match Best Local Similarity 100.C Matches 37; Conservative unidentified unclassified. Unclassified unidentified

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Fukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Cargill, M. Ireland, J.S. and Lander, E.S.
Human single nucleotide polymorphisms
Patent: WO 0166800-A 1358 13-SEP-2001;
WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH (US)
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                                GAGAAGTTTTTGAAGAGGCCTGAGAATTCATAA 390
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Sequence 305 from Patent WO0198537.
AX419968
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6 from patent US 6355775.
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/db_xref="taxon:9606"
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Nagasawa,Y. and Yoshida,H.
Transcriptional inhibitor
Patent: US 6355775-A 6 12-1
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De Waal Malefyt.R., Howard,M., Hsu,D.-H., Ishida,H., O'Garra,A., Spits,H. and 210tnik,A.
Use of interleukin-10 analogs for antagonists to treat endotoxinor superantigen-induced toxicity
Patent: US 5837293-A 42 17-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                            þ.-н., Ishida, Н., О'Garra, А.,
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Use of interleukin-10 (IL-10) to treat endotoxin-
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be waal MalefyLR., Howard,M., Hsu,b...
Spits,H. and Zlotnik,A.
Use of an interleukin.10 antagonist to
autoimmune discorder
Patent: US 5837232-A 42 17-NOV-1998;
Location/Qualifiers
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             superantigen-induced toxicity
Patent: US 5833976-A 42 10-NOV-1998;
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Sequence 42 from patent US 5837232.
AR054281
AR054281.1 GI:5979858
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Matches 33; Conservative 0; Mismatches
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                                                                           Lyamichev,V., Allawi,H., Dong,F., Nerl,B.P. and Vener,I.T. Nucleic acid accessible hybridization sites Patent: WO 0198537-A 27-DEC-2001; THIRD WAVE TECHNOLOGIES, INC. (US)

Location/Qualifiers
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1 (bases 1 to 30)

Koishi,R., Yoshimura,C. and Serizawa,N.
Method for searching physiologically active substance
Patent: JP 2001037492-A 3 13-FEB-2001;
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Method for searching physiologically active substance.
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ilarity 100.0%; Pred. No. 4.3e+05;
Conservative 0; Mismatches 0;
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Live 0; Mismatches 0;
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Sequence 619 from Patent WO0190337.
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AX317616.1 GI:17900517
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JP 2001037492-A/3.
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 AX419968.1 GI:21524335
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                                                                              Allawi, H., Bartholomay, C.T., Chehak, L., Curtis, M.L., Eis, P.S., Hall, J.G., Ip, H.S., Kaiser, M., Kwiatkowski, R.W., Lukowiak, A.A., Lyamichev, V., Ma, W., Olson-Munoz, M.C., Olson, S.M., Schaefer, J.J. Skrzypczynski, Z., Takova, T.Y., Vedvik, K.L. and Lyamichev, N.E. Detection of rna Patent: WO 199137-A 619 29-NOV-2001; THIRD WAVE TECHNOLOGIES, INC. (US)
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Location/Qualifiers
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tive 0; Mismatches 0;
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Sequence 17 from Patent WO0177382.
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E 1 (bases 1 to 28)
S Chenchik, A., Jokhadze, G. and Bibilashvilli, R.
Methods of assaying differential expression
AL Patent: US 6352829-A 479 05-MAR-2002;
Location/Qualifiers
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Unclassified.
1 (bases 1 to 28)
Chenchik, A., Jokhadze, G. and Bibilashvilli, R. Methods of assaying differential expression Patent: US 6352829-A 480 05-MAR-2002;
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                                                    Query Match 1.7%; Score 28; DB 6; L. Best Local Similarity 100.0%; Pred. No. 8.8e+05; Matches 28; Conservative 0; Mismatches 0;
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Best Local Similarity 100.0%; Pred. No. 8.8e+05;
Matches 28; Conservative 0; Mismatches 0;
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Sequence 480 from patent US 6
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Blaser,M.J., Tummuru,M.K.R. and Sharma,S.A.
CagB and CagC genes of helicobacter pylori and related compositions
Patent: US 5527678-A 8 18-JUN-1996;
Location/Qualifiers
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Genetic factor affecting cytokine expression
Patent: WO 0177382-A 16 18-OCT-2001;
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100.0%; Pred. No. 2.6e+06;
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/db_xref="taxon:32630"
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Genetic factor affecting cytckine ex
Patent: WO 0177382-A 17 18-OCT-2001;
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